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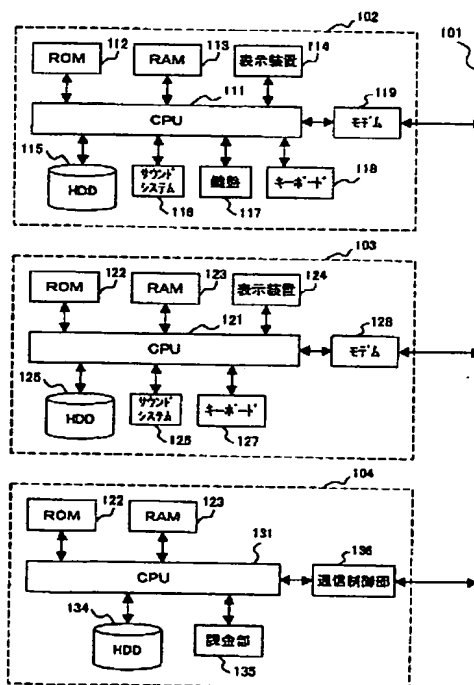
(54)【発明の名称】 音楽教室システム、データ処理装置、及び記録媒体

(57)【要約】

【課題】 学習者が自分に合うと考える教習者を選択することができる音楽教室システムを提供する。

【解決手段】 サーバ104は、教習者と契約した生徒が使用する端末システム102から送信された演奏データを、その教習者が使用する端末システム103に送信して、それに対するアドバイスを求める。その端末システム103から送られたアドバイスは、演奏データを送信した端末システム102に返す。一方、教習者と契約していない生徒が使用する端末システム102から送信された演奏データは、各教習者が使用する端末システム103に送信して、それに対するアドバイスを求める。それによって各端末システム103から送られたそれぞれのアドバイスは、教習者を選ぶうえで参照すべき情報として、演奏データを送信した端末システム102に返す。

本実施の形態による音楽教室システムの構成を示す図



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## 【特許請求の範囲】

【請求項 1】 ネットワークを介して楽器の学習を望む学習者、及びその学習者を教習する教習者を結ぶことにより音楽教室を実現するシステムであって、

前記システムは、前記ネットワークに、学習者が使用する第 1 の端末装置、教習者が使用する第 2 の端末装置、及び前記第 1 の端末装置と前記第 2 の端末装置間のやりとりを中継するサーバー、が接続されて構築され、前記第 1 の端末装置は、

前記楽器に対して学習者が行った演奏操作の内容を示す演奏データを前記サーバーに送信する演奏データ送信手段と、

前記サーバーを介して、前記第 2 の端末装置から送信された前記演奏データに対する教習者の評価を受信する評価受信手段と、

前記第 2 の端末装置を使用する教習者のなかから、前記演奏データを送ってレッスンを受ける教習者を選択するための教習者選択手段と、を具備し、

前記第 2 の端末装置は、

前記サーバーを介して、前記第 1 の端末装置から送信された演奏データを受信する演奏データ受信手段と、

前記演奏データ受信手段が受信した演奏データに対する評価を前記サーバーに送信する評価送信手段と、を具備し、

前記サーバーは、

前記第 1 の端末装置から受信した演奏データを、該演奏データを送信させた学習者が前記第 1 の端末装置の教習者選択手段を用いて行った教習者の選択結果に応じて転送すべき前記第 2 の端末装置に転送する演奏データ転送手段と、

前記第 2 の端末装置から受信した評価を、該評価を送るべき学習者の使用する第 1 の端末装置に転送する評価転送手段と、を具備する、

ことを特徴とする音楽教室システム。

【請求項 2】 ネットワークを介して楽器の学習を望む学習者、及びその学習者を教習する教習者を結ぶことにより音楽教室を実現するシステムでサーバーとして用いられる装置であって、

第 1 の端末装置を使用する学習者が、第 2 の端末装置を使用する教習者のなかから選択した教習者に応じて、該第 1 の端末装置から受信した前記楽器への演奏操作の内容を示す演奏データを転送すべき第 2 の端末装置に転送する演奏データ転送手段と、

前記第 2 の端末装置から受信した評価を、該評価を送るべき学習者の使用する第 1 の端末装置に転送する評価転送手段と、

を具備することを特徴とするデータ処理装置。

【請求項 3】 教習者を選択していない学習者の使用する第 1 の端末装置から受信した演奏データを複数の第 2 の端末装置に配信して各教習者にそれぞれ該演奏データ

に対する評価を求め、該複数の第 2 の端末装置からそれぞれ送信された評価を該第 1 の端末装置に転送することにより、該演奏データを送ってレッスンを受ける教習者を選択するうえで参照すべき情報を学習者に提供する、ことを特徴とする請求項 2 記載のデータ処理装置。

【請求項 4】 ネットワークを介して楽器の学習を望む学習者、及びその学習者を教習する教習者を結ぶことにより音楽教室を実現するシステムで学習者に使用される装置であって、

前記楽器に対して学習者が行った演奏操作の内容を示す演奏データを、教習者に送るために前記ネットワークを介してサーバーに送信する演奏データ送信手段と、

前記演奏データ送信手段が送信した演奏データに対する教習者の評価を前記サーバーから受信する評価受信手段と、

教習者のなかから、前記演奏データを送ってレッスンを受ける教習者を選択するための教習者選択手段と、を具備することを特徴とするデータ処理装置。

【請求項 5】 ネットワークを介して楽器の学習を望む学習者、及びその学習者を教習する教習者を結ぶことにより音楽教室を実現するシステムでサーバーとして用いられる装置が読み取り可能な記録媒体であって、

第 1 の端末装置を使用する学習者が、第 2 の端末装置を使用する教習者のなかから選択した教習者に応じて、該第 1 の端末装置から受信した前記楽器への演奏操作の内容を示す演奏データを転送すべき第 2 の端末装置に転送する機能と、

前記第 2 の端末装置から受信した評価を、該評価を送るべき学習者の使用する第 1 の端末装置に転送する機能と、

を実現させるためのプログラムを記録した記録媒体。

【請求項 6】 ネットワークを介して楽器の学習を望む学習者、及びその学習者を教習する教習者を結ぶことにより音楽教室を実現するシステムで学習者に使用される装置が読み取り可能な記録媒体であって、

前記楽器に対して学習者が行った演奏操作の内容を示す演奏データを、教習者に送るために前記ネットワークを介してサーバーに送信する機能と、

前記送信する機能により送信した演奏データに対する教習者の評価を前記サーバーから受信する機能と、

教習者のなかから、前記演奏データを送ってレッスンを受ける教習者を選択するための機能と、

を実現させるためのプログラムを記録した記録媒体。

【発明の詳細な説明】

【0001】

【発明の属する技術分野】本発明は、ネットワークを利用して、楽器の学習を望む学習者に学習の場を提供するための技術に関する。

【0002】

【従来の技術および発明が解決しようとする課題】楽器

を習いたい人に学習の場を提供するものとして音楽教室がある。しかし、その音楽教室は、それが開いている時間に通える人しか利用することができず、地理的、時間的な条件による制約が大きい。その制約によって音楽教室に通うのをあきらめている人は少なくない。このことから、最近では、グローバルな情報インフラストラクチャとして急速に発展しているインターネットを使って音楽教室が開かれている。インターネットを使うことにより、少なくとも地理的な制約は回避されることから、それまで通えなかった人も音楽教室での楽器の学習に参加できるようになる。音楽教室システムは、インターネットなどのネットワークを使って音楽教室を実現させるシステムである。

【0003】音楽教室での楽器の学習は、予め定めたカリキュラムに沿って行われる。従来は、カリキュラムとして定めたコース別に教習者（先生）を割り当てて学習者に対する教習を行わせていた。このため、学習者は自身が学習するコースに割り当てられた教習者からしか学習することができなかった。

【0004】学習者は、自身の学習成果を上げるために適切なアドバイスを求める。しかし、適切なアドバイスは、学習者の能力やレベルなどによって異なってくるために、それを行うのは容易ではない。教習者の能力や相性などに依存する割合が多いのが実情である。

【0005】適切なアドバイスを受けられなかったと考える学習者の多くは、少なからず不満を持つようになる。その不満は、学習意欲を低下させたり、更には音楽教室を辞める動機となることもある。このことから、学習者にはその人に合った教習者を割り当てることが重要であると考えられる。

【0006】本発明の課題は、学習者が自分に合うと考える教習者を選択することができる音楽教室システムを提供することにある。

【0007】

【課題を解決するための手段】本発明の音楽教室システムは、ネットワークを介して楽器の学習を望む学習者、及びその学習者を教習する教習者を結ぶことにより音楽教室を実現するシステムであって、そのシステムは、ネットワークに、学習者が使用する第1の端末装置、教習者が使用する第2の端末装置、及び第1の端末装置と第2の端末装置間のやりとりを中継するサーバー、が接続されて構築され、第1の端末装置は、楽器に対して学習者が行った演奏操作の内容を示す演奏データをサーバーに送信する演奏データ送信手段と、サーバーを介して、第2の端末装置から送信された演奏データに対する教習者の評価を受信する評価受信手段と、第2の端末装置を使用する教習者のなかから、演奏データを送ってレッスンを受ける教習者を選択するための教習者選択手段と、を具備し、第2の端末装置は、サーバーを介して、第1の端末装置から送信された演奏データを受信する演奏デ

ータ受信手段と、演奏データ受信手段が受信した演奏データに対する評価をサーバーに送信する評価送信手段と、を具備し、サーバーは、第1の端末装置から受信した演奏データを、該演奏データを送信させた学習者が第1の端末装置の教習者選択手段を用いて行った教習者の選択結果に応じて転送すべき第2の端末装置に転送する演奏データ転送手段と、第2の端末装置から受信した評価を、該評価を送るべき学習者の使用する第1の端末装置に転送する評価転送手段と、を具備する。

【0008】本発明の第1の態様のデータ処理装置は、ネットワークを介して楽器の学習を望む学習者、及びその学習者を教習する教習者を結ぶことにより音楽教室を実現するシステムでサーバーとして用いられることを前提とし、第1の端末装置を使用する学習者が、第2の端末装置を使用する教習者のなかから選択した教習者に応じて、該第1の端末装置から受信した楽器への演奏操作の内容を示す演奏データを転送すべき第2の端末装置に転送する演奏データ転送手段と、第2の端末装置から受信した評価を、該評価を送るべき学習者の使用する第1の端末装置に転送する評価転送手段と、を具備する。

【0009】なお、上記第1の態様のデータ処理装置は、教習者を選択していない学習者の使用する第1の端末装置から受信した演奏データを複数の第2の端末装置に配信して各教習者にそれぞれ該演奏データに対する評価を求め、該複数の第2の端末装置からそれぞれ送信された評価を該第1の端末装置に転送することにより、該演奏データを送ってレッスンを受ける教習者を選択するうえで参照すべき情報を学習者に提供する、ことが望ましい。

【0010】本発明の第2の態様のデータ処理装置は、ネットワークを介して楽器の学習を望む学習者、及びその学習者を教習する教習者を結ぶことにより音楽教室を実現するシステムで学習者に使用されることを前提とし、楽器に対して学習者が行った演奏操作の内容を示す演奏データを、教習者に送るためにネットワークを介してサーバーに送信する演奏データ送信手段と、演奏データ送信手段が送信した演奏データに対する教習者の評価をサーバーから受信する評価受信手段と、教習者のなかから、演奏データを送ってレッスンを受ける教習者を選択するための教習者選択手段と、を具備する。

【0011】本発明の第1の態様の記録媒体は、ネットワークを介して楽器の学習を望む学習者、及びその学習者を教習する教習者を結ぶことにより音楽教室を実現するシステムでサーバーとして用いられる装置が読み取り可能な記録媒体であって、第1の端末装置を使用する学習者が、第2の端末装置を使用する教習者のなかから選択した教習者に応じて、該第1の端末装置から受信した楽器への演奏操作の内容を示す演奏データを転送すべき第2の端末装置に転送する機能と、第2の端末装置から受信した評価を、該評価を送るべき学習者の使用する第

1の端末装置に転送する機能と、を実現させるためのプログラムを記録している。

【0012】本発明の第2の態様の記録媒体は、ネットワークを介して楽器の学習を望む学習者、及びその学習者を教習する教習者を結ぶことにより音楽教室を実現するシステムで学習者に使用される装置が読み取り可能な記録媒体であって、楽器に対して学習者が行った演奏操作の内容を示す演奏データを、教習者に送るためにネットワークを介してサーバーに送信する機能と、送信する機能により送信した演奏データに対する教習者の評価をサーバーから受信する機能と、教習者のなかから、演奏データを送ってレッスンを受ける教習者を選択するための機能と、を実現させるためのプログラムを記録している。

【0013】本発明では、ネットワークを用いて実現される音楽教室の生徒である学習者に、その音楽教室の先生である教習者のなかからレッスンを望む教習者を選択させ、学習者が送信させた演奏データは、その学習者が選択した教習者に送って評価させ、その評価はその学習者（演奏データの送信者）に返す。それにより、学習者は自身が選択した自分にとって適切だと思われる教習者によるレッスンを受けられるようになっている。

【0014】

【発明の実施の形態】以下、本発明の実施の形態について、図面を参照しながら詳細に説明する。図1は、本実施の形態による音楽教室システムの構成を示す図である。そのシステムは、図1に示すように、ネットワーク101を使って音楽教室を実現するものであり、そのネットワーク101に、音楽教室の生徒である学習者が使用する端末システム102、音楽教室の先生である教習者が使用する端末システム103、及びそれらのシステム102、103間におけるデータのやりとりを仲介するサーバー104が接続されて構成されている。

【0015】上記ネットワーク101は、例えばインターネットや公衆回線、及び専用線などをまとめて表したものである。例えば、端末システム102、103は、公衆回線、及びインターネットとの接続サービスを行っているISP（Internet Service Provider）を介してそのインターネットと接続される。他方のサーバー104は、専用線を介してインターネットと接続されている。インターネットを介して端末システム103をサーバー104と接続させているのは、教習者（先生）における地理的な制約を回避して、教習者（先生）が場所に関わらず、学習者に対する教習を行えるようにするためである。なお、端末システム102とサーバー104間はインターネットを使い、端末システム103とサーバー104間はLANを使うといったように、それらの間は異なるネットワークを使って接続するようにしても良い。

【0016】上記端末システム（以降、端末と略記す

る）102は、そのユーザ（音楽教室の生徒である学習者）が楽器の学習を行うためのものである。図1に示すように、端末102全体の制御を行うCPU111と、例えばデータの入出力に関わるプログラムを記憶したROM112と、CPU111がワーク用に用いるRAM113と、CRT、或いはLCDなどである表示装置114と、ハードディスクを有するハードディスク装置（HDD）115と、CPU111の指示に従って楽音を放音するサウンドシステム116と、鍵盤117と、キーボード118と、公衆回線を介してデータの送受信を行うモデム119と、を備えて構成されている。

【0017】そのような構成の端末102は、例えば鍵盤117を備えた電子楽器にネットワーク機能などを追加するか、或いはパーソナル・コンピュータ（以降、PCと略記）に、鍵盤（電子楽器）117などを接続することで実現させることができる。即ち1個の装置、或いは複数の装置を接続することで実現させることができる。ネットワーク機能を追加した電子楽器、或いはPCに接続すべき鍵盤117などの装置は、音楽教室の生徒となった人に販売、或いはリースなどの形で提供するようにしても良い。サウンドシステム116は、サーバー104からダウンロードした曲データを再生したり、或いは鍵盤117への操作に応じて楽音を放音するためのものであり、例えば楽音の波形データを生成する音源、その音源から出力された波形データをアナログのオーディオ信号に変換するA/Dコンバータ、そのオーディオ信号の増幅を行うアンプ、及びそのアンプが増幅したオーディオ信号を音声に変換するスピーカ、などから構成される。

【0018】上記端末システム（以降、端末と略記する）103は、そのユーザ（音楽教室の先生である教習者）が学習者に対する楽器の教習を行うためのものである。図1に示すように、端末103全体の制御を行うCPU121と、例えばデータの入出力に関わるプログラムを記憶したROM122と、CPU121がワーク用に用いるRAM123と、CRT、或いはLCDなどである表示装置124と、ハードディスクを有するハードディスク装置（HDD）125と、CPU121の指示に従って楽音を放音するサウンドシステム126と、キーボード127と、公衆回線を介してデータの送受信を行うモデム128と、を備えて構成されている。上記端末102と同様に、1個の装置、或いは複数の装置を接続することで実現させることができる。なお、そのような構成の端末103は、例えばPCに、モデム128、及びサウンドシステム126を搭載し、キーボード127や表示装置124を接続することで実現させることができる。そのサウンドシステム126は、主に、学習者から送信された演奏データを再生するためのものであり、構成は上記サウンドシステム116と基本的に同じである。

【0019】上記サーバー104は、音楽教室を実現させるために業者が設置したものである。図1に示すように、全体の制御を行うCPU131と、例えばデータの入出力に関わるプログラムを記憶したROM132と、CPU131がワーク用に用いるRAM133と、ハードディスクを有するハードディスク装置(HDD)134と、CPU121の指示に従って学習者に対する課金を行う課金部135と、専用線を介してデータの送受信を行う通信制御部136、を備えて構成されている。

【0020】HDD134に搭載されたハードディスクには、CPU131が実行するプログラム(ネットワーク・オペレーティング・システム(OS)、など)や各種データが格納される。音楽教室としてのサービスを提供するためのデータとしては、図2に示すようなものが格納されている。その図2には、そのデータとして特に重要なものを抜粋して概念的に表しており、図2中のエリアは実際には例えばフォルダ、或いはディレクトリが対応する。

【0021】図2に示す曲データエリアには、学習者が手本とすべき曲のデータが格納される。その曲データは例えばSMF(スタンダードMIDIファイル)の形式でまとめられたものである。先生用端末エリアには、各端末(先生である教習者)103毎に、その端末103に送信すべき、或いは送信したデータが格納される。そのデータとは、例えば学習者からの質問や、鍵盤117に対する演奏操作の内容を表す演奏データ、などであり、それらはメールの形で送信される。

【0022】生徒用端末エリアには、各端末(生徒である学習者)102毎に、その端末102に送信すべき、或いは送信したデータが格納される。そのデータとは、例えば教習者からのアドバイスや回答(質問に対する回答)、課金情報、などであり、それらはメールの形で送信される。それ以外には、生徒用、及び先生用の開始画面、曲リスト画面、課金情報画面などを始めとする各種画面のデータ(例えばHTMLデータ)がハードディスクには格納されている。

【0023】ところで、生徒の申し込みは、特に詳細な説明は省略するが、例えば所定の用紙に必要事項、例えば名前や住所、メールアドレス、及びクレジットカードのカード番号などの個人情報を記入し、それを音楽教室(それを開いている業者)宛に提出することで行うようになっている。音楽教室側は、そのようにして申し込んだ人に、生徒であることを識別するためのIDやパスワードを通知し、生徒用端末エリアにはその人用のエリアを確保する(図2参照)。それにより、生徒としてのサービスは、サーバー104にアクセスした際にそのIDやパスワードを提示して受けるようになっている。端末102としてPCを使用する人には、音楽教室での学習を行ううえで必要なソフトウェアを記録したCD-ROMなどの記録媒体を配布し、それをハードディスクにイ

ンストールさせている。なお、当然のことながら、生徒の申し込みは、書面ではなく、サーバー104にアクセスして行えるようにしても良い。

【0024】他方の教習者は、能力のない人やふさわしくない人を先生として採用するのを回避するために、所定の手続きを経て採用している。先生として採用した人には生徒と同様にIDとパスワードを発行し、学習者とのやりとりのために専用のアドレスを割り当て、更には先生用端末エリアにはその人用のエリアを確保する(図2参照)。IDとパスワードは、サーバー104にアクセスした際に提示して先生としての役割を行うようになっている。

【0025】以上の構成において、動作を説明する。端末102は、例えばダイヤルアップによって公衆回線を介してISPと接続させた後、サーバー104のURLを指定して接続を指示することでそのサーバー104と接続(リンクが確立)される。サーバー104は、そのURLを指定してアクセスしてきた端末102に、IDとパスワードの入力を促す入力画面をハードディスクから読み出して送信する。

【0026】端末102は、サーバー104から受信した入力画面を表示装置114に表示させる。その入力画面には、特に図示していないが、例えばID、パスワードの入力用の2つの入力ボックス、「OK」アイコン、及び「キャンセル」アイコンなどが配置されている。キーボード118を操作してそれらの入力ボックスにID、パスワードをそれぞれ入力した後、「OK」アイコンを学習者がクリックすると、入力したID、パスワードがアクセス者の識別データとしてサーバー104に送信する。なお、アイコンのクリックは、キーボード118に設けられたキー(カーソルキーやエンターキー、など)を操作するか、或いは特に図示しないポインティングデバイス(例えばマウス)を操作して行うようになっている。これは端末103においても同様である。

【0027】サーバー104は、端末102から受信したID、パスワードの組み合わせが例えばハードディスクに保存(登録)されているか否か確認することで認証を行う。その認証によってアクセス者が生徒であることを確認すると、ハードディスクから図12に示す開始画面を端末102に送信する。それにより、以降、端末102のユーザに、音楽教室の生徒としてのサービスを提供する。

【0028】他方の端末103も上記端末102と同様にしてサーバー104と接続される。サーバー104と接続した端末103のユーザが入力画面上で入力するのは先生のものとして登録されているID、パスワードである。このため、それらを識別データとして受信したサーバー104は、ハードディスクから図32に示す開始画面を端末103に送信する。それにより、以降、端末103のユーザに、音楽教室の先生としての業務を行わ

せる。

【0029】次に、図3～図11、図26～図31、及び図41～図43に示す各種フローチャート、図12～図25、及び図32～図40に示す各種説明図を参照して、音楽教室を実現させる端末102、103、及びサーバー104の動作、及びその音楽教室で提供されるサービスの内容について詳細に説明する。

【0030】図3～図11は、サーバー104にアクセスする、学習者が使用する端末102が実行する処理の流れを示すフローチャート、図12～図25はそのアクセス中に表示装置114に表示される画面を示す図である。始めに、それらの図を参照して、端末102の動作、それによってそのユーザである学習者に提供されるサービスについて詳細に説明する。なお、図3～図11に示すフローチャートは、CPU111が、HDD115がハードディスクから読み出したプログラム(OSやブラウザ、など)を実行することで実現される。

【0031】まず、ステップ301では、サーバー104に対して接続要求を送信する。その接続要求は、サーバー104のURLを含む信号であり、上述したように、例えばISPと接続させた後、サーバー104のURLを指定して接続を学習者が指示した場合に、CPU111がモデム119から送信させる。

【0032】サーバー104は、その接続要求によって接続(リンクが確立)した端末102にIDとパスワードの入力を促す入力画面を送信する。ステップ301に続くステップ302では、受信した入力画面を表示装置114に表示させて、学習者のキーボード118への操作に応じてID、或いはパスワードを入力し、その入力画面上の「OK」アイコンをユーザがクリックするのを待って、そのユーザが入力したID、及びパスワードを識別データとしてサーバー104に送信する。その後はステップ303に移行して、サーバー104から図12に示す開始画面を受信するのを待つ。

【0033】その開始画面をサーバー104から受信すると、ステップ303からステップ304に移行する。そのステップ304では、受信した開始画面を表示装置114に表示させる。続くステップ305では、その開始画面上に配置されたアイコンがクリック(ON)されるのを待つ。開始画面上に配置された何れかのアイコンをユーザがクリックすると、ステップ306に移行する。

【0034】上記開始画面には、図12に示すように、「曲リスト」「再生」「アドバイス受信」「録音」「演奏データ送信」「質問送信」及び「終了」アイコンが配置されている。「曲リスト」アイコンは、サーバー104が保有する曲データをダウンロード(購入)するサービスの提供を要求するためのものであり、「再生」アイコンはダウンロード済みの曲データの再生を指示するためのものである。「アドバイス受信」アイコンは、生徒

用端末エリア内で自分に割り当てられたエリアに格納されている、教習者からの返事(質問に対する回答や演奏に対するアドバイス、など)の受信を要求するためのものである。「録音」アイコンは、鍵盤117への操作の内容を記録する形で行う録音を指示するためのものである。「演奏データ送信」アイコンは、その録音によって得られた演奏データの送信を要求するためのものである。「質問」アイコンは教習者に質問の送信を要求するためのものである。「終了」アイコンは、サーバー104との間で確立されているリンクの解除を指示するためのものである。端末102のユーザは、それらのうちの一つをクリックして所望のサービスを要求する。ステップ306以降の処理は、ユーザに所望のサービスを提供するために実行される。

【0035】まず、ステップ306では、クリック(ON)されたのが「終了」アイコンか否か判定する。ユーザがその「終了」アイコンをクリックした場合、判定はYESとなってステップ307に移行し、サーバー104とのリンク(接続)を解除(切断)させた後、一連の処理を終了する。そうでない場合には、即ち「終了」アイコン以外のアイコンをユーザがクリックした場合には、判定はNOとなり、図4に示すステップ308に移行する。

【0036】そのステップ308では、クリックされたのが「曲リスト」アイコンか否か判定する。ユーザが図12に示す開始画面上の「曲リスト」アイコンをクリックした場合、判定はYESとなってステップ309に移行する。そうでない場合には、判定はNOとなって図5に示すステップ319に移行する。

【0037】ステップ309では、ダウンロード可能な曲のリストを要求する信号(曲リスト要求信号)をサーバー104に送信する。続くステップ310では、その信号を送信したサーバー104から図13に示す曲リスト画面を受信するのを待つ。その曲リスト画面を受信すると、ステップ311に移行して、それを表示装置114に表示させた後、ステップ312に移行する。

【0038】上記曲リスト画面には、図13に示すように、曲データエリアに格納されている、ダウンロード(転送)の対象とする曲データの曲名が一覧表示されている。アイコンとしては、「決定」アイコン、及び「戻る」アイコンが配置されている。ユーザは、所望する曲名をクリックするなどして曲を指定した後、「決定」アイコンをクリックすることで、その曲の曲データをダウンロードするようになっている。

【0039】ステップ312では、曲が新たに指定されたか否か判定する。ユーザが一覧として表示されている何れかの曲名をクリックしたような場合、判定はYESとなってステップ313に移行し、新たに指定された曲名の表示を、選択状態を示すものに変更した後、ステップ314に移行する。そうでない場合には、判定はNO

となり、他のステップの処理を実行することなくそのステップ314に移行する。

【0040】ステップ314では、アイコンがクリック(オン)されたか否か判定する。ユーザが「決定」アイコン、或いは「戻る」アイコンをクリックした場合、判定はYESとなってステップ315に移行する。そうでない場合には、判定はNOとなり、上記ステップ312に戻る。

【0041】ステップ315では、ユーザがクリックしたアイコンの種類を判定する。ユーザが「決定」アイコンをクリックした場合、その旨が判定されてステップ316に移行し、現在、選択状態となっている曲名の曲データのダウンロードを要求する指定曲要求信号をサーバー104に送信する。その後はステップ317に移行して、サーバー104から要求した曲データを受信するのを待つ。一方、ユーザが「戻る」アイコンをクリックした場合には、その旨が判定されて上記ステップ304に戻る。

【0042】サーバー104から曲データを受信すると、ステップ317からステップ318に移行する。そのステップ318では、受信した曲データを、例えばハードディスクに予め確保した格納場所(例えばフォルダ)に格納する。その後は上記ステップ312に戻る。

【0043】上記ステップ312～318で形成される処理ループは、ステップ315でクリックされたのが「戻る」アイコンであると判定するまでの間、繰り返して実行される。それにより、図13に示す曲リスト画面が表示装置114に表示されている間、ユーザは所望の曲の指定や、指定した曲のデータのダウンロードを随時、行えるようになっている。

【0044】上記ステップ308の判定がNOとなって移行する図5のステップ319では、クリックされたのが「再生」アイコンか否か判定する。ユーザが図12に示す開始画面上の「再生」アイコンをクリックした場合、判定はYESとなってステップ320に移行する。そうでない場合には、判定はNOとなって図6に示すステップ331に移行する。

【0045】ステップ320では、サーバー104からダウンロードして格納(保存)した曲データに基づき図14に示すような模範曲リスト画面(HTMLデータ)を作成する。続くステップ321では、作成した模範曲リスト画面を表示装置114に表示させる。その後はステップ322に移行する。なお、模範曲リスト画面の作成は、例えばCPU111が、ハードディスクに予め保存された曲リストの無い模範曲リスト画面をRAM113に読み出させ、その画面内に、サーバー104からダウンロードした曲データの曲名を挿入することで行う。

【0046】そのようにして作成される模範曲リスト画面には、図14に示すように、サーバー104からダウンロードした再生可能な曲データの曲名が一覧表示され

ている。アイコンとしては、「スタート」アイコン、

「ストップ」アイコン、及び「戻る」アイコンが配置されている。ユーザは、所望する曲名をクリックするなどして曲を指定した後、「スタート」アイコンをクリックすることで、曲データの再生を指示するようになっている。その再生の終了は、「ストップ」アイコンをクリックすることで指示するようになっている。

【0047】ステップ322では、曲が新たに指定されたか否か判定する。ユーザが一覧として表示されている何れかの曲名をクリックしたような場合、判定はYESとなってステップ323に移行し、新たに指定された曲名の表示を、選択状態を示すものに変更した後、ステップ324に移行する。そうでない場合には、判定はNOとなり、他のステップの処理を実行することなくそのステップ324に移行する。

【0048】ステップ324では、アイコンがクリック(オン)されたか否か判定する。ユーザが「スタート」アイコン、「ストップ」アイコン、或いは「戻る」アイコンをクリックした場合、判定はYESとなってステップ325に移行する。そうでない場合には、判定はNOとなり、上記ステップ322に戻る。

【0049】ステップ325では、ユーザがクリックしたアイコンの種類を判定する。ユーザが「スタート」アイコンをクリックした場合、判定はYESとなってステップ326に移行する。そうでない場合には、即ち「スタート」アイコン以外のアイコンをユーザがクリックした場合には、判定はNOとなってステップ328に移行する。

【0050】ステップ326では、現在、選択状態となっている曲名の曲データの再生を行う。続くステップ327では、その再生が終了したか否か判定する。その再生が終了していない場合、判定はNOとなり、上記ステップ325に戻る。そうでない場合には、判定はYESとなって上記ステップ322に戻る。なお、曲データの再生は、例えばCPU111が、それを構成するMIDIデータに付加された時間データに従って、それが付加されたMIDIデータをサウンドシステム116の音源に送出することで行われる。

【0051】上記ステップ325の判定がNOとなって移行するステップ328では、「ストップ」アイコンがクリックされたか否か判定する。ユーザがその「ストップ」アイコンをクリックした場合、判定はYESとなってステップ329に移行し、曲データの再生を停止(終了)させた後、上記ステップ322に戻る。そうでない場合には、判定はNOとなってステップ330に移行する。

【0052】ステップ330では、「戻る」アイコンがクリックされたか否か判定する。ユーザがその「戻る」アイコンをクリックした場合、判定はYESとなり、再生中の曲データがあればその再生を停止(終了)させた

後、上記ステップ304に戻る。そうでない場合には、判定はNOとなって上記ステップ325に戻る。

【0053】曲を指定して「スタート」アイコンをクリックした後は、即ちステップ325の判定がYESとなった後は、そのステップ325では、指定された曲データの再生が終了するか（ステップ327の判定がYESとなるか）、「ストップ」アイコンをクリックして再生を停止（終了）させるか（ステップ328の判定がYESとなるか）、或いは「戻る」アイコンをクリックして前の画面（ここでは図12に示す開始画面）を表示させる（ステップ330の判定がYESとなる）までの間、曲データが再生中か否かの判定を合わせて行い、「スタート」アイコンがクリックされなくとも曲データを再生中であればYESと判定するようになっている。それにより、その間は、ステップ325～330の処理をクリックされたアイコンの種類に応じて実行するようになっている。

【0054】上記ステップ319の判定がNOとなって移行する図6のステップ331では、クリックされたのが「録音」アイコンか否かを判定する。ユーザが図12に示す開始画面上の「録音」アイコンをクリックした場合、判定はYESとなってステップ332に移行する。そうでない場合には、判定はNOとなって図7に示すステップ342に移行する。

【0055】ステップ332では、上述したステップ320と同様に、図15に示すような模範曲リスト画面（HTMLデータ）を作成する。続くステップ333では、作成した模範曲リスト画面を表示装置114に表示させる。その後はステップ334に移行する。

【0056】ステップ334では、曲が新たに指定されたか否かを判定する。ユーザが一覧として表示されている何れかの曲名をクリックしたような場合、判定はYESとなってステップ335に移行し、新たに指定された曲名の表示を、選択状態を示すものに変更した後、ステップ336に移行する。そうでない場合には、判定はNOとなり、他のステップの処理を実行することなくそのステップ336に移行する。

【0057】ステップ336では、アイコンがクリック（オン）されたか否かを判定する。ユーザが「決定」アイコン、或いは「戻る」アイコンをクリックした場合、判定はYESとなってステップ337に移行する。そうでない場合には、判定はNOとなり、上記ステップ334に戻る。

【0058】ステップ337では、ユーザがクリックしたアイコンの種類を判定する。ユーザが「決定」アイコンをクリックした場合、その旨が判定されてステップ338に移行する。そうでない場合には、即ち「戻る」アイコンをユーザがクリックした場合には、その旨が判定されて上記ステップ304に戻る。

【0059】ステップ338では、現在、選択状態とな

っている曲名の曲データを基に、発音させるべき楽音

（押鍵すべき鍵）を音符で表した楽譜を作成し、それを配置した図16に示すような録音楽譜画面を表示装置114に表示させる。続くステップ339では、「録音スタート」アイコンがクリック（ON）されたか否かを判定する。そのアイコンをユーザがクリックした場合、判定はYESとなってステップ340に移行し、ユーザの鍵盤117への演奏操作の内容を記録する形で録音を行った後、上記ステップ338に戻る。そうでない場合には、判定はNOとなり、ステップ341に移行する。

【0060】ステップ341では、「録音ストップ」アイコンがクリックされたか否かを判定する。そのアイコンをユーザがクリックした場合、判定はYESとなり、それまで録音中であればその録音によって得た演奏データを予め定められた格納場所にファイルとして保存した後、上記ステップ333に戻って図15に示すような模範曲リスト画面を表示装置114に表示させる。そうでない場合には、判定はNOとなり、上記ステップ340に移行して録音を行う。

【0061】上記ステップ338～341で形成される処理ループは、ステップ341の判定がYES、即ちユーザが「録音ストップ」アイコンをクリックするまでの間、繰り返し実行される。それにより、以下のようなことが実現される。鍵盤117は、例えばそれへの演奏操作（押鍵や離鍵）を検出し、その内容を表すMIDIデータを生成してCPU111に出力する。CPU111は、それをサウンドシステム116の音源に送出することにより、鍵盤117への演奏操作に応じて発音させるべき楽音をリアルタイムで発音させる。ユーザが「録音スタート」アイコンをクリックすると、例えばそれに搭載されたハードタイマで計時された時間を監視して、鍵盤117から受け取ったMIDIデータに、それを処理すべきタイミング（直前のイベントからの時間であるデルタタイム）を示す時間データを付加することにより録音を行い、時間データを付加したMIDIデータはRAM113、或いは必要に応じてハードディスクに格納する。そのようにして、録音を行うことで演奏データはSMFの形式で作成する。なお、曲名は指定した曲データのものとしている。

【0062】上述したように、曲データを構成するMIDIデータはそれに付加された時間データに従って処理される。CPU111は、MIDIデータに付加された時間データを基に、録音開始（「録音スタート」アイコンをクリックしてから経過した時間）から経過した時間で処理されているべきMIDIデータを特定し、その特定したMIDIデータに応じて、表示する楽譜の内容を更新する。それにより、録音時には、時間の経過に従って随時、楽譜の内容を更新し、ユーザが演奏していると考えられる部分を常に表示させるようにしている。その楽譜の内容の更新は、ステップ338で行っている。



【0063】上記ステップ331の判定がNOとなって移行する図7のステップ342では、クリックされたのが「演奏データ送信」アイコンか否か判定する。ユーザが図12に示す開始画面上の「演奏データ送信」アイコンをクリックした場合、判定はYESとなってステップ343に移行する。そうでない場合には、判定はNOとなって図8に示すステップ353に移行する。

【0064】ステップ343では、送信の対象となる演奏データがあるか否か判定する。その格納場所に演奏データが格納されていないような場合、判定はNOとなってステップ344に移行し、送信の対象となる演奏データがない旨を通知するために、図17に示すような演奏データなし警告画面をハードディスクから読み出して表示装置114に表示させた後、上記ステップ304に戻る。そうでない場合には、判定はYESとなってステップ345に移行し、図18に示すようなアドレス指定画面をハードディスクから読み出して表示装置114に表示させた後、ステップ346に移行する。

【0065】本実施の形態では、ユーザ（音楽教室の生徒である学習者）に指導を受ける教習者（音楽教室の先生）を自由に選択させるようにしている。それにより、学習者（生徒）は、自分にとって適切な指導を行ってくれる、指導を受けやすい、或いは相性が良いと思われる教習者を自由に選択することができる。この結果、学習者が教習者、更には音楽教室に対して抱く不満を低減させることができる。教習者にとっては、選択されなければ収入を得られないことから、自身のやりかたを反省したり、どのようにして指導を行うのが適切であるのか、といったことをより深く考えるようになる。このようなことから、楽器の学習をより快適に行える環境を学習者に提供できることになる。

【0066】上述したように、教習者には、学習者とのやりとりのために個別のアドレスを持たせている。このことから、端末102側では、教習者と契約を行うと、その教習者のアドレスを登録するようになっている。それにより、契約した教習者宛に演奏データや質問、などを送付できるようにしている。

【0067】ステップ346では、教習者と契約済みか否か判定する。契約しなければ教習者のアドレスは登録（保存）されないことから、そのアドレスが登録されていない場合、判定はNOとなってステップ348に移行する。そうでない場合には、判定はYESとなってステップ347に移行し、図18に示すようなアドレス指定画面の入力ボックス内に契約した教習者（教師）のアドレスを表示させた後、そのステップ348に移行する。

【0068】このように、教習者と契約していなければ、アドレス指定画面は図18に示すような状態のままであり、教習者と契約していれば、その画面の入力ボックスには契約した教習者のアドレスが表示されることによって、図19に示すような状態となる。それにより、

学習者にとっては、自身が教習者と契約しているか否かはアドレス指定画面の入力ボックスにアドレスが表示されたか否かにより認識できるようになっている。

【0069】上記アドレス指定画面には、図18、或いは図19に示すように、「送信」アイコン、及び「中止」アイコンが配置されている。ステップ348では、その「送信」アイコンがクリック（ON）されたか否か判定する。学習者であるユーザが「送信」アイコンをクリックした場合、判定はYESとなってステップ350に移行する。そうでない場合には、判定はNOとなってステップ349に移行する。

【0070】ステップ349では、「中止」アイコンがクリック（ON）されたか否か判定する。学習者であるユーザが「中止」アイコンをクリックした場合、即ち演奏データの送信の中止を指示した場合、判定はYESとなり、上記ステップ304に戻る。そうでない場合には、判定はNOとなり、上記ステップ348に戻って再度、「送信」アイコンがクリックされたか否かの判定を行う。

【0071】一方のステップ350では、アドレス指定画面の入力ボックス内にアドレスがあるか否か判定する。ユーザが教習者との契約を済ませている場合、そのアドレスが入力ボックスに表示されていることから、判定はYESとなり、ステップ351でそのアドレスを演奏データに付加してサーバー104に送信した後、上記ステップ304に戻る。そうでない場合には、即ち契約している教習者が存在しない場合には、判定はNOとなってステップ352に移行し、特殊アドレスを演奏データに付加して送信した後、上記ステップ304に戻る。

【0072】送信済みの演奏データは、特に図示していないが、それまでの格納場所とは異なる格納場所に移すか、或いはそれに送信済みであることを示すデータを付加する。それにより、送信済みか否かを判別し、送信されていない演奏データのみを対象に送信するようにしている。なお、演奏データは、フロッピー（登録商標）ディスクなどの記録媒体にアクセスして取得したものを送信できるようにしても良い。このことから明らかなように、端末102は鍵盤117を備えていなくとも良い。

【0073】上記特殊アドレスは、教習者全てに演奏データを送信することを示すものである。教習者全てに演奏データを送信することで、その演奏データに対するアドバイス（評価）を求め、そのアドバイスを送信者（契約が済んでいない学習者）に返すようにしている。それにより、学習者に、演奏データに対するアドバイスから自分に合った教習者を探し出して契約できるようにしている。学習者にとっては、アドバイスから教習者の能力や感性、或いは指導の仕方、などを判断できることから、自分に合った教習者を適切に探し出せるようになり、より高い学習成果を達成できるようになる。このことから明らかなように、学習者にとって、そのアドバイ

スは教習者を選択するうえで非常に貴重な情報となりうる。

【0074】上記ステップ342の判定がNOとなって移行する図8のステップ353では、クリックされたのが「アドバイス受信」アイコンか否か判定する。ユーザが図12に示す開始画面上の「アドバイス受信」アイコンをクリックした場合、判定はYESとなってステップ354に移行する。そうでない場合には、判定はNOとなって図11に示すステップ376に移行する。

【0075】ステップ354では、サーバー104に、ユーザ宛の返事（アドバイス、或いは回答、など）があるか否かの問い合わせを送信する。続くステップ355では、その問い合わせに対する回答を受信して、その回答から返事があるか否か判定する。生徒用端末エリア内のユーザに割り当てたエリア（図2参照）内にその返事が格納されていない場合、その旨が回答で通知される結果、判定はNOとなってステップ356に移行し、図20に示すようなアドバイスなし警告画面をハードディスクから読み出して表示装置114に一定時間、表示させた後、上記ステップ304に戻る。そうでない場合には、判定はYESとなり、ステップ357に移行する。

【0076】ステップ357では、サーバー104から回答として送信されたメール形式のデータ（アドバイスデータ）をRAM113、或いはハードディスクに記憶させる。続くステップ358では、ステップ367で記憶したアドバイスデータを用いて図21に示すようなアドバイスリスト画面を作成する。それを作成すると、ステップ359に移行して、その作成した画面を表示装置114に表示させる。その後はステップ360に移行する。なお、アドバイスリスト画面の作成は、例えばCPU111が、ハードディスクに格納された、リストの存在しないアドバイスリスト画面をRAM113に読み出させ、その画面内に、アドバイスデータ中の題名、及び教習者のアドレスを挿入することで行われる。

【0077】そのアドバイスリスト画面には、図21に示すように、教習者から送信された返事のリストが配置され、アイコンとして、「開封」アイコン、「削除」アイコン、及び「戻る」アイコンが配置されている。リスト中の返事（アドバイス）の指定は、それが表示された箇所をクリックするか、或いは選択状態となっている表示箇所を移動させる、などして行うようになっている。

【0078】ステップ360では、アドバイスが新たに指定されたか否か判定する。ユーザが一覧として表示されている何れかの返事（アドバイス）をクリックしたような場合、判定はYESとなってステップ361に移行し、新たに指定された返事の表示を、選択状態を示すものに変更した後、ステップ362に移行する。そうでない場合には、判定はNOとなり、他のステップの処理を実行することなくそのステップ362に移行する。

【0079】ステップ362では、アイコンがクリック

（ON）されたか否か、アイコンがクリックされたのであればそのアイコンの種類を判定する。ユーザが何れのアイコンもクリックしていない場合、その旨が判定されて上記ステップ359に戻り、画面表示を維持させる。ユーザが「戻る」アイコンをクリックした場合には、その旨を判定して上記ステップ304に戻る。ユーザが「削除」アイコンをクリックした場合には、その旨を判定してステップ363に移行し、現在、指定されている返事（アドバイス）をRAM113、或いはハードディスクから削除した後、上記ステップ358に戻り、一つの返事の削除に伴ってアドバイスリスト画面を再度、作成する。ユーザが「開封」アイコンをクリックした場合には、その旨を判定してステップ364に移行し、現在、指定されている返事を表示対象として確定させた後、図9に示すステップ365に移行する。

【0080】そのステップ365では、表示対象とした返事（アドバイス）の送信元のアドレスが契約した教習者（教師）のものでないか否か判定する。その送信元のアドレスが端末102側で登録しているものと一致した場合、判定はNOとなり、図10に示すステップ372に移行する。そうでない場合には、判定はYESとなってステップ366に移行する。

【0081】ステップ366では、表示対象の返事（アドバイス）をRAM113、或いはハードディスクから読み出し、例えばその内容（アドバイス、及び条件、などの図36に示す画面上で入力されたデータ）をハードディスクから読み出した無契約教師アドバイス表示画面中に挿入し、その挿入後の画面（図22参照）を表示装置114に表示させる。続くステップ367では、その画面に配置されたアイコンがクリック（ON）されたか否か判定する。ユーザが「契約」アイコン、及び「戻る」アイコンの何れもクリックしていない場合、判定はNOとなって上記ステップ366に戻る。そうでない場合には、判定はYESとなってステップ368に移行する。それにより、無契約教師アドバイス表示画面上の「契約」アイコン、或いは「戻る」アイコンがクリックされるまでの間、ユーザが指定した返事（アドバイス）の内容を表示する。

【0082】ステップ368では、クリックされたアイコンの種類を判定する。ユーザが「戻る」アイコンをクリックした場合、その旨が判定されて図8に示すステップ359に戻り、図21に示すようなアドバイスリスト画面を表示装置114に再度、表示させる。そうでない場合には、即ちユーザが「契約」アイコンをクリックした場合には、その旨が判定されてステップ369に移行する。

【0083】ステップ369では、契約了解信号をサーバー104に送信し、現在、表示している返事（アドバイス）の送信元のアドレスを契約した教習者のものとしてハードディスク内に登録する。その信号は、例えば現

在、表示している返事（アドバイス）の送信元のアドレスを有する、そのアドレスを持つ教習者と契約する意思をサーバー 104 に通知するものである。それを受信したサーバー 104 は、ユーザ（学習者）が契約の意思を通知してきた教習者にその旨を伝えるメール（契約了解メール）を作成してその教習者に送信するとともに、その教習者が送ったアドバイスに対する課金処理を行い、その課金結果を課金情報として端末 102 に送信する。このことから、ステップ 369 に続くステップ 370 では、その課金情報を受信するのを待つ。それを受信すると、ステップ 371 に移行し、その内容を表示装置 114 に表示させた後、上記ステップ 304 に戻る。

【0084】ユーザが開封を指示した返事（アドバイス）の送信元のアドレスが契約した教習者（教師）のものでない場合には、上記ステップ 365 の判定は NO となって図 10 に示すステップ 372 に移行する。そのステップ 372 では、表示対象の返事（アドバイス）を RAM 113、或いはハードディスクから読み出し、例えばその内容をハードディスクから読み出した契約済教師アドバイス表示画面中に挿入し、その挿入後の画面（図 23 参照）を表示装置 114 に表示させる。続くステップ 373 では、その画面に配置されたアイコンがクリック（ON）されるのを待つ。ユーザが「削除」アイコン、或いは「戻る」アイコンをクリックすると、ステップ 374 に移行して、クリックされたアイコンの種類を判定する。ユーザが「戻る」アイコンをクリックした場合、その旨が判定されて図 8 に示すステップ 359 に戻り、図 21 に示すようなアドバイスリスト画面を表示装置 114 に再度、表示させる。そうでない場合には、即ちユーザが「削除」アイコンをクリックした場合には、その旨が判定されてステップ 375 に移行し、現在、表示中の返事（アドバイス）を RAM 113、或いはハードディスクから削除した後、図 8 のステップ 358 に戻り、一つの返事の削除に伴ってアドバイスリスト画面を再度、作成する。

【0085】このように、本実施の形態では、契約していない学習者から送信された演奏データに対するアドバイスを教習者が送っても、学習者が契約をしなければそのアドバイスに対する報酬は得られないようにしている。このため、教習者は、学習者と契約するために、自分の能力や感性を高めたり、更には適切な指導の仕方を身に付ける、といったことに努力しなければならない。この結果、教習者のレベルが向上し、学習者はより質の高い学習を行えるようになる。

【0086】図 8 のステップ 353 の判定が NO となって移行する図 11 のステップ 376 では、「質問送信」アイコンをクリックされたか否かが判定する。ユーザがそのアイコンをクリックした場合、判定は YES となってステップ 377 に移行する。そうでない場合には、判定は NO となり、図 3 のステップ 305 に戻る。

【0087】ステップ 377 では、ユーザが教習者と契約しているか否かが判定する。教習者のアドレスが登録されていない場合、判定は NO となってステップ 378 に移行し、図 24 に示すような質問不可警告画面をハードディスクから読み出して表示装置 114 に一定時間、表示することにより、契約していないことで質問が行えないことを通知した後、上記ステップ 304 に戻る。そうでない場合には、判定は YES となってステップ 379 に移行し、図 25 に示すような質問入力画面を例えばハードディスクから読み出して表示装置 114 に表示させた後、ステップ 380 に移行する。

【0088】上記質問入力画面には、図 25 に示すように、質問を入力するための入力ボックスが配置され、アイコンとして、「送信」アイコン、及び「中止」アイコンが配置されている。ユーザが「送信」アイコンをクリックすると、入力ボックスに入力された質問を、契約した教習者を宛先としてサーバー 104 に送信するようになってい

【0089】ステップ 380 では、データ入力が行われたか否かが判定する。入力ボックス内にカーソルを位置させた状態でユーザがキーボード 118 を操作した場合、判定は YES となり、ステップ 381 でその操作内容に応じてデータを新たに入力ボックス内に表示させた後、ステップ 382 に移行する。そうでない場合には、判定は NO となり、他のステップを処理することなくそのステップ 382 に移行する。

【0090】ステップ 382 では、アイコンをクリックされたか否かが判定する。ユーザが「送信」アイコン、或いは「中止」アイコンをクリックした場合、判定は YES となってステップ 383 に移行する。そうでない場合には、判定は NO となり、上記ステップ 380 に戻る。

【0091】ステップ 380～382 で形成される処理ループは、ステップ 382 の判定が YES、即ちユーザが何らかのアイコンをクリックするまでの間、繰り返して実行される。それにより、ユーザは、キーボード 118 への操作によって入力ボックス内にデータ（質問）を入力できるようになっている。

【0092】ステップ 383 では、クリックされたアイコンの種類を判定する。ユーザが「送信」アイコンをクリックした場合、その旨が判定されてステップ 384 に移行し、登録されている、契約した教習者（教師）のアドレスを宛先にして、入力ボックスに入力されたデータをサーバー 104 に送信した後、上記ステップ 304 に戻る。そうでない場合には、即ちユーザが「中止」アイコンをクリックした場合には、その旨が判定されてステップ 385 に移行し、入力されたデータをクリアした後、上記ステップ 304 に戻る。

【0093】サーバー 104 と接続させた場合、端末 102 はユーザのキーボード 118、或いは特には図示しないポインティングデバイスへの操作に応じて上述した

ような処理を実行する。それにより、端末102は、サーバー104によるサービスをユーザである音楽教室の生徒に提供する。

【0094】図26～図31は、サーバー104にアクセスする、教習者が使用する端末103が実行する処理の流れを示すフローチャート、図32～図40はそのアクセス中に表示装置124に表示される画面を示す図である。次に、それらの図を参照して、端末103の動作、そのユーザが行う音楽教室の教師としての作業について詳細に説明する。なお、図26～図31に示すフローチャートは、CPU121が、HDD125がハードディスクから読み出したプログラム（OSやブラウザ、など）を実行することで実現される。

【0095】まず、ステップ2601では、サーバー104に対して接続要求を送信する。その接続要求は、サーバー104のURLを含む信号であり、上述したように、例えばISPと接続させた後、サーバー104のURLを指定して接続を学習者が指示した場合に、CPU121がモデム128から送信させる。

【0096】サーバー104は、その接続要求によって接続（リンクが確立）した端末103にIDとパスワードの入力を促す入力画面を送信する。ステップ2601に続くステップ2602では、受信した入力画面を表示装置124に表示させて、ユーザ（教習者）のキーボード127への操作に応じてID、或いはパスワードを入力し、その入力画面上の「OK」アイコンをユーザがクリックするのを待つ、そのユーザが入力したID、及びパスワードを識別データとしてサーバー104に送信する。その後はステップ2603に移行して、サーバー104から図32に示す開始画面を受信するのを待つ。

【0097】その開始画面をサーバー104から受信すると、ステップ2603からステップ2604に移行する。そのステップ2604では、受信した開始画面を表示装置124に表示させる。続くステップ2605では、その開始画面上に配置されたアイコンがクリック（ON）されるのを待つ。開始画面上に配置された何れかのアイコンをユーザがクリックすると、ステップ2606に移行する。

【0098】上記開始画面には、図32に示すように、「受信」「送信」及び「終了」の各アイコンが配置されている。「受信」アイコンは、先生用端末エリア内で自分に割り当てられたエリアに格納されている、学習者からの演奏データや質問の受信を要求するためのものである。「送信」アイコンは、音楽教室、或いは契約している学習者（生徒）などに伝えるべきことをメールの形で送信するのを要求するためのものである。「終了」アイコンは、サーバー104との間で確立されているリンクの解除を指示するためのものである。端末103のユーザは、それらのうちの一つをクリックして音楽教室の教師としての作業を行う。ステップ2606以降の処理

は、ユーザがクリックしたアイコンの種類に応じて実行される。

【0099】まず、ステップ2606では、クリック（ON）されたのが「終了」アイコンか否か判定する。ユーザがその「終了」アイコンをクリックした場合、判定はYESとなってステップ2607に移行し、サーバー104とのリンク（接続）を解除（切断）させた後、一連の処理を終了する。そうでない場合には、即ち「終了」アイコン以外のアイコンをユーザがクリックした場合には、判定はNOとなり、図27に示すステップ2608に移行する。

【0100】そのステップ2608では、クリックされたのが「受信」アイコンか否か判定する。ユーザが図32に示す開始画面上の「受信」アイコンをクリックした場合、判定はYESとなってステップ2609に移行する。そうでない場合には、判定はNOとなって図31に示すステップ2649に移行する。

【0101】ステップ2609では、端末103のユーザ宛に送信された学習者からのメールの配信を要求する配信要求信号をサーバー104に送信する。その信号を受信したサーバー104は、先生用端末エリア内のそのユーザに割り当てたエリアに格納されている学習者からのメールがあればそれをその信号に対する回答として送信する。このことから、ステップ2609に続くステップ2610では、サーバー104から回答を受信し、その回答のなかにメールが含まれているか否か判定する。そのメールが回答のなかに含まれていない場合、判定はNOとなってステップ2611に移行し、学習者からのメールが届いていない旨を通知するための画面をハードディスクから読み出して表示装置124に一定時間、表示させた後、図26のステップ2604に戻り、再度、図32に示すような開始画面を表示装置124に表示させる。そうでない場合には、判定はYESとなり、ステップ2612に移行する。

【0102】ステップ2612では、サーバー104から受信した学習者からのメールをRAM123、或いはハードディスクに記憶させる。続くステップ2613では、ステップ2612で記憶したメールを用いて図33に示すような受信画面を作成する。それを作成すると、ステップ2614に移行して、その作成した画面を表示装置124に表示させる。その後はステップ2615に移行する。なお、受信画面の作成は、例えばCPU121が、ハードディスクに格納された、リストの存在しない受信画面をRAM123に読み出させ、その画面内に、メール中の送信元のアドレスから特定した生徒の名前（図33中では「生徒A」～「生徒C」で表現）、及びそのメールの内容から特定したメールの種類を示すデータ（図33中では「質問」、「演奏データ」、及び「契約」の3種類）を挿入することで行われる。

【0103】その受信画面には、図33に示すように、

学習者から送信されたメールのリストが配置され、アイコンとして、「開封」アイコン、「削除」アイコン、及び「戻る」アイコンが配置されている。リスト中のメールの指定は、それが表示された箇所をクリックするか、或いは選択状態となっている表示箇所を移動させる、などして行うようになっている。

【0104】ステップ2615では、リスト中のメールが新たに指定されたか否か判定する。ユーザが一覧として表示されている何れかのメールをクリックしたような場合、判定はYESとなってステップ2616に移行し、新たに指定されたメールの表示を、選択状態を示すものに変更した後、ステップ2617に移行する。そうでない場合には、判定はNOとなり、他のステップの処理を実行することなくそのステップ2617に移行する。

【0105】ステップ2617では、アイコンをクリック（ON）されたか否か判定する。ユーザが何れかのアイコンをクリックした場合、判定はYESとなってステップ2618に移行する。そうでない場合には、判定はNOとなって上記ステップ2615に戻る。

【0106】ステップ2618では、クリックされたアイコンの種類を判定する。ユーザが「戻る」アイコンをクリックした場合、その旨が判定されて上記ステップ2604に戻る。ユーザが「削除」アイコンをクリックした場合には、その旨が判定されてステップ2619に移行し、現在、指定されているメールをRAM123、或いはハードディスクから削除した後、上記ステップ2613に戻り、一つのメールの削除に伴って受信画面を再度、作成する。ユーザが「開封」アイコンをクリックした場合には、その旨が判定されて図28に示すステップ2620に移行する。

【0107】ステップ2620では、メールの種類を判定する。ユーザが「契約」と表示されているメールを指定していた場合、その旨が判定されてステップ2621に移行する。そのステップ2621では、そのメールの内容をハードディスクから読み出した契約通知画面の表示ボックス内に挿入し、その挿入後の画面（図34参照）を表示装置124に表示させる。続くステップ2622では、その画面上に配置された「戻る」アイコンをクリック（ON）されるのを待つ。ユーザがそのアイコンをクリックすると、上記ステップ2613に戻り、再度、受信画面を表示させる。

【0108】受信画面上で「演奏データ」と表示されているメールをユーザが指定していた場合には、上記ステップ2620でその旨が判定されてステップ2623に移行する。そのステップ2623では、指定されたメールをRAM123、或いはハードディスクから読み出し、その内容をハードディスクから読み出したメール内容表示画面内に挿入し、その挿入後の画面（図35参照）を表示装置124に表示させる。このとき、メール

の送信元のアドレスから、そのメールが契約した学習者（生徒）のものか否か判定し、契約した学習者からのメールでないと判定した場合に、その旨を通知するメッセージもその画面内に挿入する（図35参照）。それにより、教習者に、演奏データを送信してきた学習者に伝えるべきアドバイスの入力を促す。

【0109】そのメール内容表示画面には、図35に示すように、「再生」「停止」「アドバイス入力」及び「戻る」の各アイコンが配置されている。ステップ2623に続くステップ2624では、それらのうちの何れかのアイコンをクリックされたか否か判定する。ユーザが何らかのアイコンをクリックした場合、判定はYESとなってステップ2625に移行する。そうでない場合には、判定はNOとなってステップ2642に移行する。

【0110】ステップ2625では、「再生」アイコンをクリックされたか否か判定する。ユーザがそのアイコンをクリックした場合、判定はYESとなり、ステップ2626で演奏データの再生を管理するための変数STFに、再生中であることを示す値の1を代入した後、ステップ2627に移行する。そうでない場合には、判定はNOとなり、そのステップ2727に移行する。

【0111】ステップ2627では、「停止」アイコンをクリックされたか否か判定する。そのアイコンをユーザがクリックした場合、判定はYESとなり、ステップ2628で上記変数STFに再生中でないことを示す値の0を代入した後、ステップ2629に移行する。そうでない場合には、判定はNOとなり、そのステップ2629に移行する。

【0112】ステップ2629では、「アドバイス入力」アイコンをクリックされたか否か判定する。ユーザがそのアイコンをクリックした場合、判定はYESとなり、ステップ2630で変数STFに0を代入した後、ステップ2631に移行する。そうでない場合には、判定はNOとなり、そのステップ2631に移行する。

【0113】ステップ2631では、図35に示すようなメール内容表示画面で表示させているメールが契約した学習者（生徒）からのものか否か判定する。その画面に図35に示すような契約していない学習者からのメールであることを通知するメッセージを表示させていなかった場合、判定はYESとなって図29のステップ2632に移行し、例えばハードディスクから図37に示すような契約生徒に対するアドバイス入力画面を読み出して表示装置124に表示させた後、ステップ2634に移行する。そうでない場合には、判定はNOとなり、例えばハードディスクから図36に示すような無契約生徒アドバイス入力画面を読み出して表示装置124に表示させた後、そのステップ2634に移行する。

【0114】無契約生徒アドバイス画面、及び契約生徒に対するアドバイス入力画面には、図36、及び図37

に示すように、それぞれアドバイスを入力するための入力ボックスが配置され、アイコンとして、「送信」アイコン、及び「中止」アイコンが配置されている。無契約生徒アドバイス画面には、更に1回のレッスンにかかる金額やその他のこと（例えばレッスンを受け付ける日時、学習者に対する要望、など）を条件として入力するための複数の入力ボックスが配置されている。条件を教習者に入力させているのは（決めさせているのは）、レッスンをより円滑に行えるようにしたり、そのレッスンに対して正当な報酬が得られるようにするためである。その条件を教習者から学習者に提示させることで、レッスンに対する責任感を向上させる効果も期待できる。これらの画面の入力ボックスに入力されたデータは、ユーザ（教習者）が「送信」アイコンをクリックすると、演奏データを送信してきた学習者のアドレスを宛先としてサーバー104に送信するようになっている。

【0115】ステップ2634では、データ入力が行われたか否か判定する。入力ボックス内にカーソルを位置させた状態でユーザがキーボード127を操作した場合、判定はYESとなり、ステップ2635でその操作内容に応じてデータを新たに入力ボックス内に表示させた後、ステップ2636に移行する。そうでない場合には、判定はNOとなり、他のステップを処理することなくそのステップ2636に移行する。

【0116】ステップ2636では、アイコンをクリック（ON）されたか否か判定する。ユーザが「送信」アイコン、或いは「中止」アイコンをクリックした場合、判定はYESとなってステップ2637に移行する。そうでない場合には、判定はNOとなり、上記ステップ2634に戻る。

【0117】ステップ2634～2636で形成される処理ループは、ステップ2636の判定がYES、即ちユーザが何らかのアイコンをクリックするまでの間、繰り返し実行される。それにより、ユーザは、キーボード127への操作によって入力ボックス内にデータ（アドバイス、など）を入力できるようになっている。

【0118】ステップ2637では、「送信」アイコンをクリックされたか否か判定する。ユーザが「送信」アイコンをクリックした場合、判定はYESとなってステップ2638に移行し、演奏データを送信してきた学習者のアドレスを宛先にして、入力ボックスに入力されたデータをサーバー104に送信する送信処理を実行した後、ステップ2640に移行する。そうでない場合には、判定はNOとなり、ステップ2639に移行する。

【0119】ステップ2639では、「中止」アイコンをクリックされたか否か判定する。その「中止」アイコンをユーザがクリックした場合、判定はYESとなってステップ2640に移行し、入力されたデータをクリアした後、上記ステップ2613に戻り、受信画面（図33参照）を再度、作成する。そうでない場合には、判定

はNOとなり、上記ステップ2634に戻る。

【0120】一方、図28のステップ2629の判定がNOとなって移行するステップ2641では、「戻る」アイコンをクリックされたか否か判定する。ユーザがそのアイコンをクリックした場合、判定はYESとなり、演奏データが再生中であればその再生を終了させた後、上記ステップ2613に戻る。そうでない場合には、判定はNOとなり、ステップ2642に移行する。

【0121】ステップ2642では、変数STFの値が1か否か判定する。その変数STFに1が代入されていた場合、判定はYESとなってステップ2643に移行し、メールにファイルとして添付されていた演奏データの再生を行った後、上記ステップ2624に戻る。

【0122】演奏データの再生は、例えばCPU121が、それを構成するMIDIデータに付加された時間データに従ってMIDIデータを順次、サウンドシステム126の音源に送出していくことで行われる。図35のメール内容表示画面上の「再生」アイコンをクリックすると、他のアイコンをユーザがクリックしない間、ステップ2624、2642、及び2643で形成される処理ループが繰り返し実行される。それにより、演奏データを再生するようになっている。なお、演奏データの再生が終了すると、ステップ2643では変数STFに0を代入する。そのようにすることで、演奏データは一通り再生すると、その再生は自動的に終了させるようになっている。

【0123】図33の受信画面上で「質問」と表示されているメールを指定した後、「開封」アイコンをユーザがクリックした場合には、上記ステップ2620でそのメールの種類が判定されて図30のステップ2644に移行する。そのステップ2644では、ユーザが指定したメールをRAM123、或いはハードディスクから読み出し、その内容をハードディスクから読み出した契約生徒の質問メール表示画面内に挿入し、挿入後の画面

（図38参照）を表示装置124に表示させる。その後はステップ2645に移行する。その表示画面には、図38に示すように、学習者からの質問が表示される表示ボックスや「回答」アイコン、及び「戻る」アイコンが配置されている。

【0124】ステップ2645では、アイコンをクリック（ON）されるのを待つ。ユーザが「回答」アイコン、或いは「戻る」アイコンをクリックすると、ステップ2646に移行して、「回答」アイコンをクリックされたか否か判定する。ユーザがそのアイコンをクリックした場合、判定はYESとなり、ステップ2647で図39に示すような回答入力画面をハードディスクから読み出して表示装置124に表示させた後、上記ステップ2634に移行し、そのステップ2634～2640の処理をユーザの操作に応じて実行する。反対にそうでない場合には、判定はNOとなってステップ2648に移

行する。

【0125】ステップ2648では、「戻る」アイコンがクリックされたか否か判定する。ユーザがそのアイコンをクリックした場合、判定はYESとなり、図27のステップ2613に戻って図33に示す受信画面を再度、作成する。そうでない場合には、判定はNOとなり、上記ステップ2645に戻る。

【0126】このように、教習者は、学習者から送信されてきたメールの内容を表示し、そのメールに対する返信の形でアドバイスや質問への回答をその学習者にサーバー104を介して送信するようになっている。図32に示す開始画面上の「送信」アイコンをユーザがクリックすると、図27のステップ2608の判定がNOとなって図31のステップ2649に移行する。そのステップ2649では、図40に示すような送信画面をハードディスクから読み出して表示装置124に表示する。その画面を表示させた後はステップ2650に移行する。

【0127】上記送信画面には、図40に示すように、送信先とするアドレス、件名、本文をそれぞれ入力するための入力ボックスや、「送信」アイコン、「中止」アイコンが配置されている。メールの送信は、各入力ボックスにデータを入力した後、「送信」アイコンをクリックすることで行うようになっている。

【0128】ステップ2650では、データ入力が行われたか否か判定する。何れかの入力ボックス内にカーソルを位置させた状態でユーザがキーボード127を操作した場合、判定はYESとなり、ステップ2651でその操作内容に応じてデータを新たに入力ボックス内に表示させた後、ステップ2652に移行する。そうでない場合には、判定はNOとなり、他のステップを処理することなくそのステップ2652に移行する。

【0129】ステップ2652では、アイコンがクリック(ON)されたか否か判定する。ユーザが「送信」アイコン、或いは「中止」アイコンをクリックした場合、判定はYESとなってステップ2653に移行する。そうでない場合には、判定はNOとなり、上記ステップ2650に戻る。

【0130】ステップ2653では、「送信」アイコンがクリックされたか否か判定する。ユーザが「送信」アイコンをクリックした場合、判定はYESとなり、ステップ2654に移行して、アドレス入力用の入力ボックスに入力されたアドレスを宛先にして他の入力ボックスに入力されたデータをサーバー104に送信する送信処理を実行し、更にはステップ2655で入力されたデータを全てクリアした後、図26のステップ2604に戻る。そうでない場合には、判定はNOとなり、ステップ2656に移行する。

【0131】ステップ2656では、「中止」アイコンがクリックされたか否か判定する。その「中止」アイコンをユーザがクリックした場合、判定はYESとなって

ステップ2655に移行し、入力されたデータをクリアした後、上記ステップ2604に戻る。そうでない場合には、判定はNOとなり、上記ステップ2650に戻る。

【0132】サーバー104と接続させた場合、端末103はユーザのキーボード118、或いは特には図示しないポインティングデバイスへの操作に応じて上述したような処理を実行する。それにより、端末103のユーザは、端末102のユーザである音楽室の生徒に対するレッスン(教習)や連絡などを行えるようになっている。

【0133】図41～図43は、アクセスしてきた端末システム102、或いは103に対応するためにサーバー104が実行する処理の流れを示すフローチャートである。次に、図41～図43に示すフローチャートを参照して、サーバー104の動作、サービスの提供方法について詳細に説明する。なお、図41～図43に示すフローチャートは、CPU131が、HDD134がハードディスクから読み出したプログラム(ネットワークOS、など)を実行することで実現される。

【0134】まず、ステップ4101では、接続要求を受信したか否か判定する。通信制御部136がそれを受信した場合、判定はYESとなってステップ4102に移行し、それを送信してきた端末102、或いは103とのリンクを確立させて接続を行う。そうでない場合には、判定はNOとなり、後述するステップ4107に移行する。

【0135】上記したように、サーバー104は、接続した端末102、或いは104と接続すると、その端末102、或いは104に、識別データとしてIDとパスワードの入力を促す入力画面をハードディスクから読み出して送信する。それにより、ステップ4102に続くステップ4103では、その識別データを受信するのを待つ。その識別データを受信すると、ステップ4104に移行する。

【0136】ステップ4104では、その識別データの持ち主を判定する。識別データとして受信したIDとパスワードの組み合わせが生徒のものとして登録してあった場合、その旨が判定されてステップ4105に移行し、図12に示すような生徒用開始画面をハードディスク(図2参照)から読み出して端末102に送信した後、ステップ4107に移行する。IDとパスワードの組み合わせが先生のものとして登録してあった場合には、その旨が判定されてステップ4106に移行し、図32に示すような先生用開始画面をハードディスク(図2参照)から読み出して端末103に送信した後、ステップ4107に移行する。

【0137】ステップ4107では、曲リスト要求信号を受信したか否か判定する。端末102のユーザが図12に示すような生徒用開始画面上の「曲リスト」アイコ

ンをクリックした場合、その曲リスト要求信号が端末 102 からサーバー 104 に送信されることから、判定は YES となってステップ 4108 に移行し、図 13 に示すような曲リスト画面をハードディスクから読み出して端末 102 に送信した後、ステップ 4109 に移行する。そうでない場合には、曲リスト要求信号は端末 102 から送信されないことから、判定は NO となり、そのステップ 4109 に移行する。

【0138】ステップ 4109 では、指定曲要求信号を受信したか否か判定する。端末 102 のユーザが図 13 に示すような曲リスト画面上で曲を指定して「決定」アイコンをクリックした場合、その指定曲要求信号が端末 102 からサーバー 104 に送信されることから、判定は YES となってステップ 4110 に移行し、その要求信号で指定される曲データをハードディスクに確保された曲データエリア（図 2 参照）から読み出して端末 102 に送信した後、図 42 に示すステップ 4111 に移行する。そうでない場合には、端末 102 から指定曲要求信号はサーバー 104 に送信されないことから、判定は NO となり、そのステップ 4111 に移行する。

【0139】ステップ 4111 では、アドレスが付加された演奏データを受信したか否か判定する。端末 102 のユーザが、図 18、或いは図 19 に示すようなアドレス指定画面上の「送信」アイコンをクリックした場合、端末 102 は演奏データにアドレスを付加してサーバー 104 に送信することから、判定は YES となってステップ 4112 に移行する。そうでない場合には、端末 102 は演奏データをサーバー 104 に送信しないことから、判定は NO となって後述するステップ 4119 に移行する。

【0140】ステップ 4112～4118 では、端末 102 から受信した演奏データに対応するための処理が行われる。まず、ステップ 4112 では、演奏データの宛先として付加されたアドレスの種類を判定する。そのアドレスは、上述したように、端末 102 から送信された演奏データを各教習者（先生）に送るためのもの（特殊アドレス）と、一人の教習者（個人）に送るものと、の 2 種類に大別される。このことから、その特殊アドレスが演奏データに付加されていた場合、その旨が判定されてステップ 4113 に移行する。そうでない場合には、判定は NO となってステップ 4116 に移行する。

【0141】ステップ 4113 では、図 35 に示すようなメッセージ（「新しい生徒のです。アドバイスして下さい。」）を本文とした演奏データ送信用の無契約生徒用メールを作成する。続くステップ 4114 では、作成した無契約生徒用メールに、受信した演奏データを添付する。その添付を行うと、ステップ 4115 に移行して、先生用端末エリア内に確保されている教習者（先生）個人用の全ての端末エリア（図 2 参照）に、演奏データを添付した無契約生徒用メールをストアする。その

後はステップ 4119 に移行する。

【0142】他方のステップ 4116 では、例えば「新しく演奏データが送られてきました。アドバイスして下さい。」のようなメッセージを本文とした演奏データ送信用の契約済生徒用メールを作成する。続くステップ 4117 では、作成した契約済生徒用メールに、受信した演奏データを添付する。その添付を行うと、ステップ 4118 に移行して、先生用端末エリア内に確保されている、アドレスで指定された教習者（先生）個人用の端末エリア（図 2 参照）に、演奏データを添付した契約済生徒用メールをストアする。その後はステップ 4119 に移行する。

【0143】このようにして、端末 102 から送信された演奏データは、それに付加されたアドレスに応じて、先生用端末エリア内に確保された個人用の端末エリアにストアされる。それにより、その端末 102 のユーザ（生徒）が望む教習者に演奏データが届けられることになる。

【0144】ステップ 4119 では、アドバイス問い合わせ要求（信号）を受信したか否か判定する。端末 102 のユーザが図 12 に示すような生徒用開始画面上の「アドバイス受信」アイコンをクリックした場合、そのアドバイス問い合わせ要求が端末 102 からサーバー 104 に送信されることから、判定は YES となってステップ 4120 に移行する。そうでない場合には、アドバイス問い合わせ曲要求は端末 102 から送信されないことから、判定は NO となり、図 43 のステップ 4123 に移行する。

【0145】ステップ 4120 では、アドバイスメールを含む教習者からのメールがあるか否か判定する。アドバイス問い合わせ要求を送信してきた端末 102 のユーザ用に生徒用端末エリア内に確保された端末エリアに、教習者のアドバイスを格納したメール、或いは質問に対する回答を格納したメールがストアされていた場合、判定は YES となってステップ 4121 に移行し、その端末エリアにストアされた教習者からのメールを全て端末 102 に送信した後、図 43 のステップ 4123 に移行する。そうでない場合には、即ち端末 102 に送信すべきメールが無い場合には、判定は NO となり、その旨を示す信号を端末 102 に送信した後、そのステップ 4123 に移行する。

【0146】そのステップ 4123 では、契約了解信号を受信したか否か判定する。端末 102 のユーザが図 22 に示すような無契約教師アドバイス表示画面上の「契約」アイコンをクリックした場合、その端末 102 は契約了解信号をサーバー 104 に送信することから、判定は YES となり、ステップ 4124 に移行する。そうでない場合には、判定は NO となり、ステップ 4128 に移行する。

【0147】ステップ 4124 では、課金処理を行う。



その処理では、例えば契約了解信号で通知された教習者がその信号を送信させた学習者に提示した条件を基に支払い請求額を算出し、その学習者が指定した口座からその請求額を引き落とすか、或いはクレジット会社にその請求額の支払いを要求するとともに、その教習者にはアドバイス（レッスン）代を指定された口座に振り込むといったことを行う。

【0148】ステップ4124に続くステップ4125では、上記課金処理によって確定した請求額を学習者に通知するための課金情報をその学習者宛に送信する。その後に移行するステップ4126では、学習者との契約が成立したことを教習者に通知する図34に示すようなメッセージを格納した契約了解メールを作成する。そのメールを作成すると、ステップ4127に移行して、それに対応する教習者宛に送信した後、ステップ4128に移行する。その契約了解メールの送信は、ここでは、契約が成立した教習者用に先生用端末エリア内に確保された端末エリアにそれをストアすることで行われる。上記課金情報は、学習者（生徒）用に生徒用端末エリア内に確保された端末エリアにもストアされる（図2参照）。

【0149】ステップ4128では、質問メールを受信したか否か判定する。端末102のユーザが図25に示すような質問入力画面上の入力ボックスに質問を入力した後、「送信」アイコンをクリックした場合、その端末102はその質問を格納したメールである質問メールをサーバー104に送信することから、判定はYESとなり、ステップ4129に移行し、その宛先とするアドレスに対応する、先生用端末エリア内に確保された端末エリア（図2参照）そのメールをストアした後、ステップ4130に移行する。そうでない場合には、判定はNOとなり、そのステップ4130に移行する。

【0150】ステップ4130では、配信要求信号を受信したか否か判定する。端末103のユーザが図32に示すような開始画面上の「受信」アイコンをクリックした場合、その端末103は配信要求信号をサーバー104に送信することから、判定はYESとなり、ステップ4131でその信号を送信させたユーザ（先生）用に先生用端末エリア内で確保されている端末エリアにストアされたメールを端末103に送信した後、ステップ4132に移行する。そうでない場合には、判定はNOとなり、そのステップ4132に移行する。

【0151】ステップ4132では、送信メールを受信したか否か判定する。端末103のユーザが図40に示すような送信画面上の入力ボックスに対応するデータを入力した後、「送信」アイコンをクリックするか、或いは図37に示すような契約生徒に対するアドバイス入力画面上の入力ボックスに対応するデータ（アドバイス）を入力した後、「送信」アイコンをクリックした場合、その端末103は入力ボックスに入力されたデータを格

納したメールをサーバー104に送信することから、判定はYESとなり、ステップ4133で宛先のアドレスに対応する、生徒用端末エリア内に確保された端末エリアに受信したメールをストアした後、図41のステップ4101に戻る。そのステップ4133では、送信メールがアドバイスを格納したものか否かが判定し、そのアドバイスを格納したものであると判定すると、上記ステップ4124と同様の課金処理を実行し、課金情報を格納したメールを端末エリアにストアするといったことを合わせて行う。一方、そうでない場合には、判定はNOとなり、他のステップの処理を実行することなく、その図41のステップ4101に戻る。

【0152】サーバー104は、上述したような処理を実行することでアクセスしてきた端末102、或いは103に対応する。それにより、端末102のユーザである学習者（音楽教室の生徒）と端末103のユーザである教習者（音楽教室の先生）との間のやりとりを中継し、その端末102のユーザに楽器を学習する場を提供する音楽教室を実現させる。

【0153】なお、本実施の形態では、音楽教室の生徒（端末102のユーザ）は一人の先生（端末103のユーザ）としか契約、即ち選ぶことができなくなっているが、複数の先生と契約できるようにしても良い。複数の先生と契約できるようにした場合には、音楽のジャンル別に先生と契約したり、契約した先生のなかから、随時レッスン（ここでは、演奏データを送ってそれに対する評価であるアドバイスを受けることが主に対応する）を受けたい先生を選べるようにしても良い。先生との契約については、必要に応じて破棄できるようにすることが望ましい。

【0154】教習者への演奏データの送付は、その教習者のアドレスを登録し、登録したアドレスを演奏データに付加することで実現させているが、それ以外の方法で実現させても良い。例えばサーバー104が、端末102から受信した演奏データを転送すべき端末103に自動的に転送するようにしても良い。契約という形を採用しないのであれば、単に演奏データを送る教習者を生徒に指定させて、その指定された教習者に演奏データを送るようにしても良い。

【0155】その契約は、先生側が条件を提示して行うようになっているが、先生側だけでなく、生徒側も先生に条件を提示できるようにしても良い。そのようにした場合には、生徒と先生の間で交渉を行う場を用意することが望ましい。音楽教室（楽器を学習する場）は、サーバー104が生徒と先生とを結ぶことで実現しているが、そのサーバー104にかかる負荷は複数のサーバーに分散させても良い。即ち音楽教室は複数のサーバーによって実現させるようにしても良い。

【0156】上述したようなサーバー104、端末102、端末103、或いはその変形例の動作を実現させる

ようなプログラムは、CD-ROM、フロッピーディスク、或いは光磁気ディスク等の記録媒体に記録させて配布しても良い。或いは、公衆網等の伝送媒体を用いて、そのプログラムの一部、若しくは全部を配信するようにしても良い。そのようにした場合には、ユーザはプログラムを取得してコンピュータ（データ処理装置）にロードすることにより、そのコンピュータ、更にはそれとネットワークにより複数のコンピュータが接続されたシステムに本発明を適用させることができる。このことから、記録媒体は、プログラムを配信する装置がアクセス

#### 【0157】

【発明の効果】以上、説明したように本発明では、ネットワークを用いて実現される音楽教室の生徒である学習者に、その音楽教室の先生である教習者のなかからレッスンを望む教習者を選択させ、学習者が送信させた演奏データは、その学習者が選択した教習者に送って評価させ、その評価はその学習者に返す。このため、学習者は自身が選択した自分にとって適切だと思われる教習者によるレッスンを受けることができ、それによって音楽教室に対する不満などを学習者が抱くのを抑えることができる。

#### 【図面の簡単な説明】

【図1】本実施の形態による音楽教室システムの構成を示す図である。

【図2】サーバーのハードディスクに格納されたデータの内容を説明する図である。

【図3】サーバーにアクセスする、学習者が使用する端末システムが実行する処理の流れを示すフローチャートである。

【図4】サーバーにアクセスする、学習者が使用する端末システムが実行する処理の流れを示すフローチャートである（続き1）。

【図5】サーバーにアクセスする、学習者が使用する端末システムが実行する処理の流れを示すフローチャートである（続き2）。

【図6】サーバーにアクセスする、学習者が使用する端末システムが実行する処理の流れを示すフローチャートである（続き3）。

【図7】サーバーにアクセスする、学習者が使用する端末システムが実行する処理の流れを示すフローチャートである（続き4）。

【図8】サーバーにアクセスする、学習者が使用する端末システムが実行する処理の流れを示すフローチャートである（続き5）。

【図9】サーバーにアクセスする、学習者が使用する端末システムが実行する処理の流れを示すフローチャートである（続き6）。

【図10】サーバーにアクセスする、学習者が使用する端末システムが実行する処理の流れを示すフローチャート

トである（続き7）。

【図11】サーバーにアクセスする、学習者が使用する端末システムが実行する処理の流れを示すフローチャートである（続き8）。

【図12】生使用開始画面を示す図である。

【図13】曲リスト画面を示す図である。

【図14】模範曲リスト画面（再生用）を示す図である。

【図15】模範曲リスト画面（録音用）を示す図である。

【図16】録音楽譜画面を示す図である。

【図17】演奏データなし画面を示す図である。

【図18】アドレス指定画面（無契約時）を示す図である。

【図19】アドレス指定画面（契約済時）を示す図である。

【図20】アドバイスなし警告画面を示す図である。

【図21】アドバイスリスト画面を示す図である。

【図22】無契約教師アドバイス表示画面を示す図である。

【図23】契約済教師アドバイス表示画面を示す図である。

【図24】質問不可警告画面を示す図である。

【図25】質問入力画面を示す図である。

【図26】サーバーにアクセスする、教習者が使用する端末システムが実行する処理の流れを示すフローチャートである。

【図27】サーバーにアクセスする、教習者が使用する端末システムが実行する処理の流れを示すフローチャートである（続き1）。

【図28】サーバーにアクセスする、教習者が使用する端末システムが実行する処理の流れを示すフローチャートである（続き2）。

【図29】サーバーにアクセスする、教習者が使用する端末システムが実行する処理の流れを示すフローチャートである（続き3）。

【図30】サーバーにアクセスする、教習者が使用する端末システムが実行する処理の流れを示すフローチャートである（続き4）。

【図31】サーバーにアクセスする、教習者が使用する端末システムが実行する処理の流れを示すフローチャートである（続き5）。

【図32】先生用開始画面を示す図である。

【図33】受信画面を示す図である。

【図34】契約通知画面を示す図である。

【図35】メール内容通知画面を示す図である。

【図36】無契約生徒アドバイス入力画面を示す図である。

【図37】契約生徒に対するアドバイス入力画面を示す図である。

【図 3 8】契約生徒の質問メール表示画面を示す図である。

【図39】回答入力画面を示す図である。

【図40】送信画面を示す図である。

【図４１】アクセスしてきた端末システムに対応するためにサーバーが実行する処理の流れを示すフローチャートである。

【図４２】アクセスしてきた端末システムに対応するためにサーバーが実行する処理の流れを示すフローチャートである（続き１）。

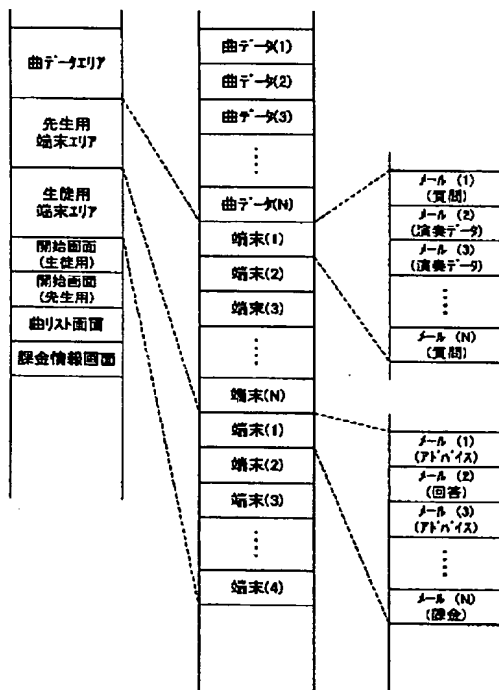
【図 4 3】アクセスしてきた端末システムに対応するためにサーバーが実行する処理の流れを示すフローチャートである（続き 2）。

【符号の説明】

101	ネットワーク
102、103	端末システム
104	サーバー
111、121、131	CPU
112、122、132	ROM
113、123、133	RAM
115、125、134	ハードディスク装置
116、126	サウンドシステム
117	鍵盤
118、127	キーボード
119、128	モデム
135	課金部
136	通信制御部

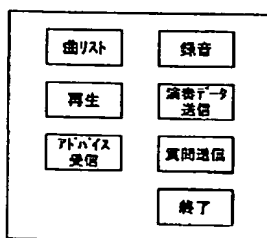
【図 2】

サーバーのハードディスクに格納されたデータの内容を説明する図



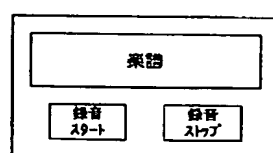
【図 12】

生徒用開始画面を示す図



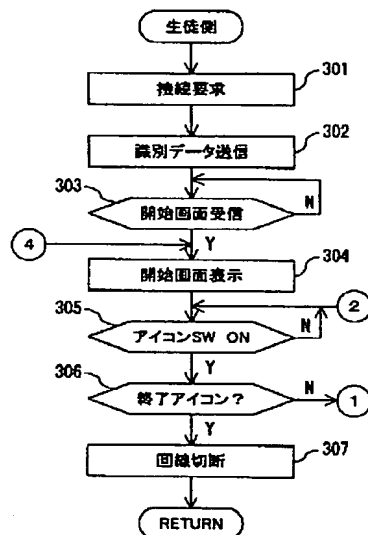
【图 16】

録音楽譜画面を示す図



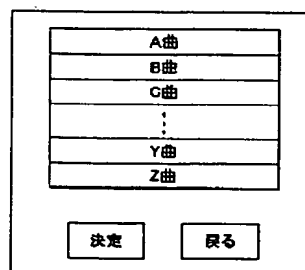
【図 3】

サーバーにアクセスする、学習者が使用する  
端末システムが実行する処理の流れを示すフローチャート



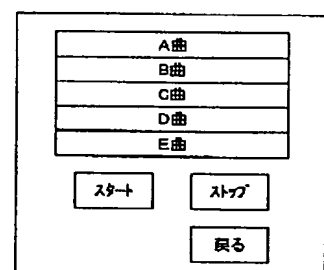
【图 1 3】

曲リスト画面を示す図



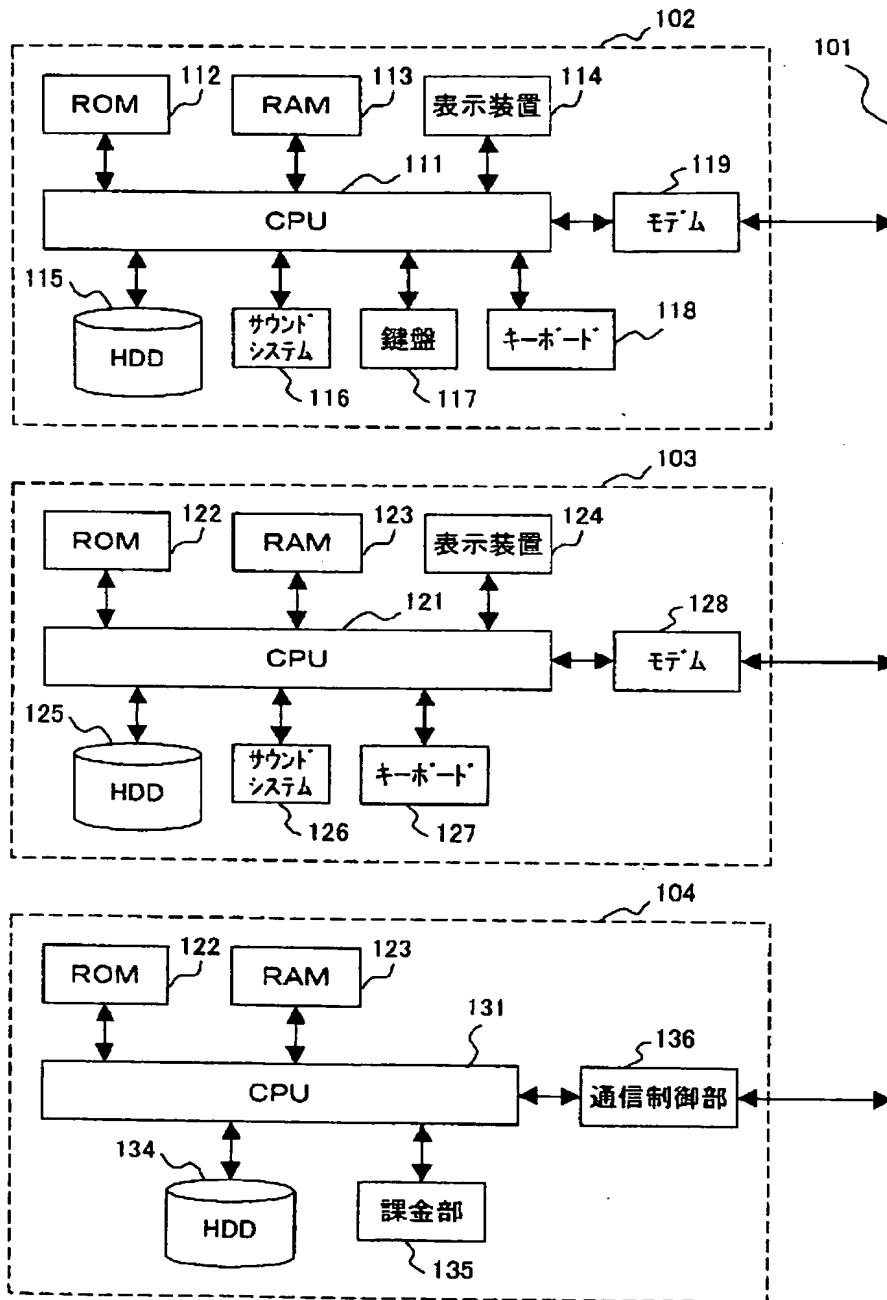
【图 14】

模範曲リスト画面(再生用)を示す図



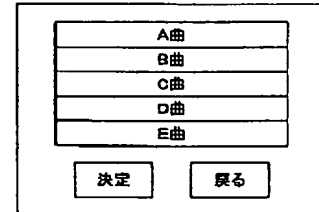
【図 1】

本実施の形態による音楽教室システムの構成を示す図



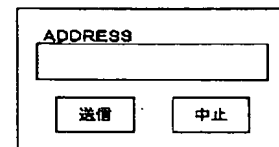
【図 15】

模範曲リスト画面(録音用)を示す図



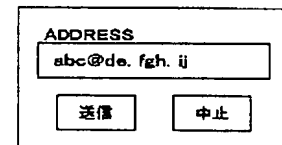
【図 18】

アドレス指定画面(無契約済時)を示す図



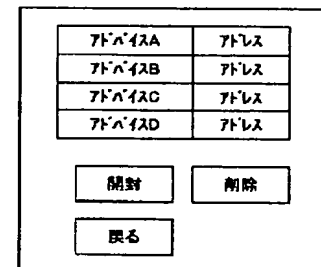
【図 19】

アドレス指定画面(契約済時)を示す図



【図 21】

アドバイスリスト画面を示す図

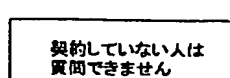
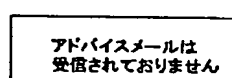
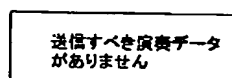


【図 17】

【図 20】

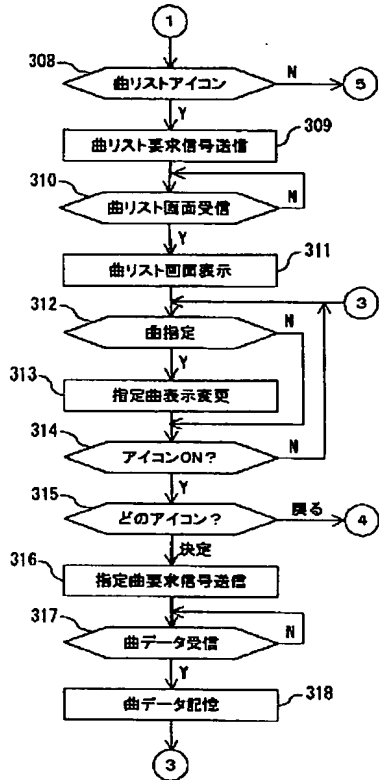
【図 24】

演奏データなし警告画面を示す図 アドバイスなし警告画面を示す図 質問不可警告画面を示す図



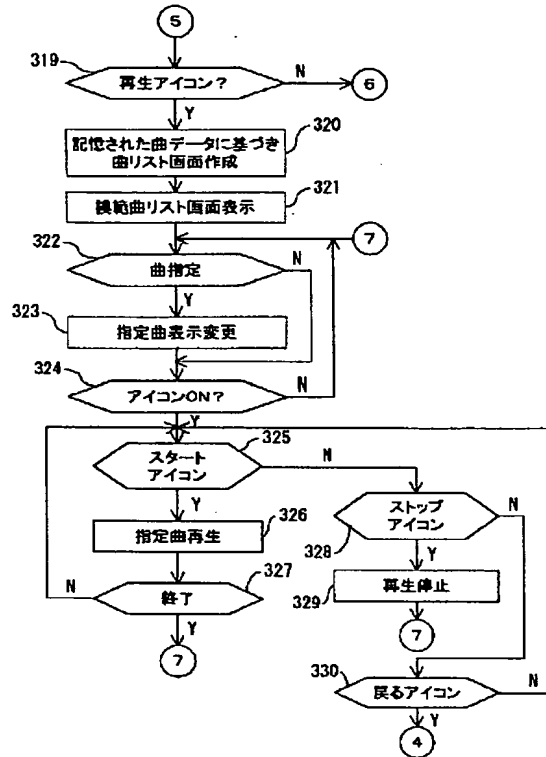
【図4】

サーバーにアクセスする、学習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き1)



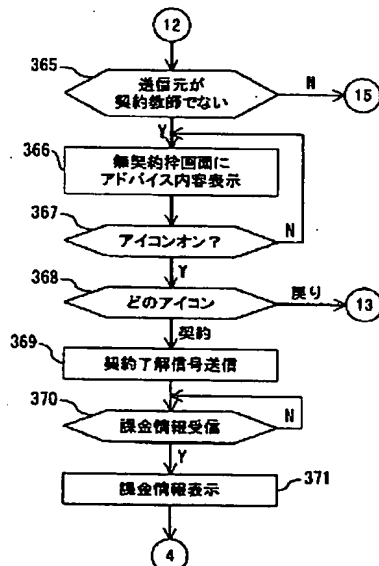
【図5】

サーバーにアクセスする、学習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き2)



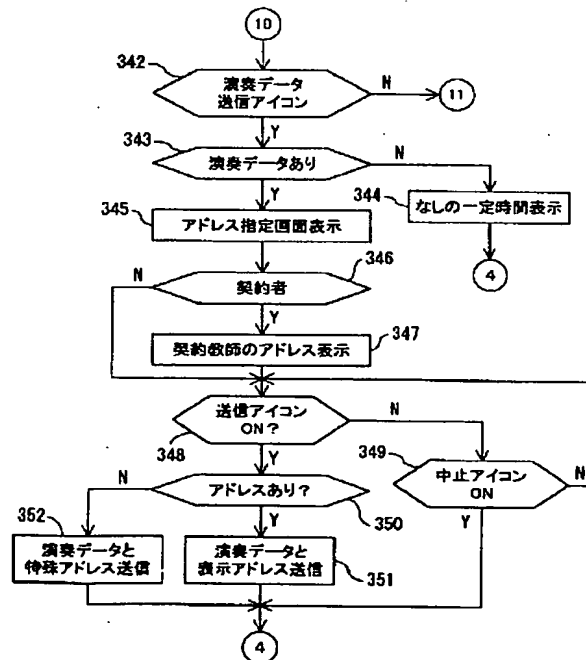
【図9】

サーバーにアクセスする、学習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き6)



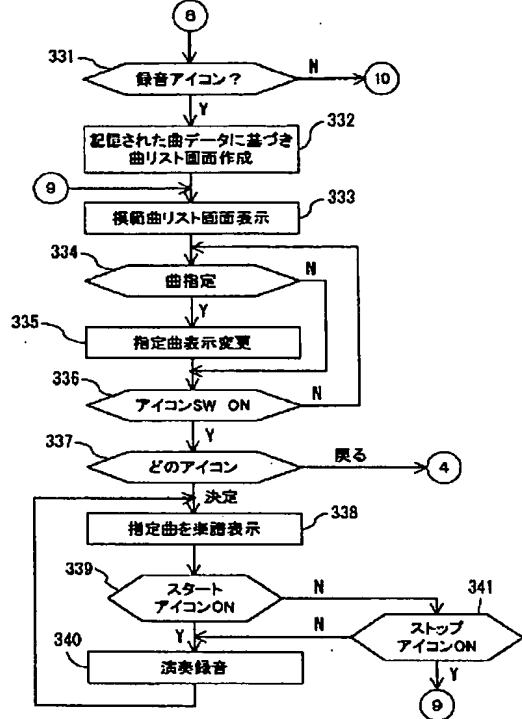
【図7】

サーバーにアクセスする、学習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き4)



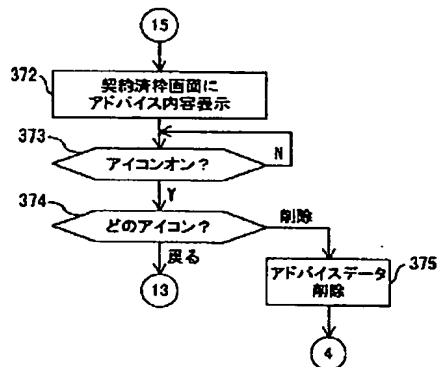
【図6】

サーバーにアクセスする、学習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き3)



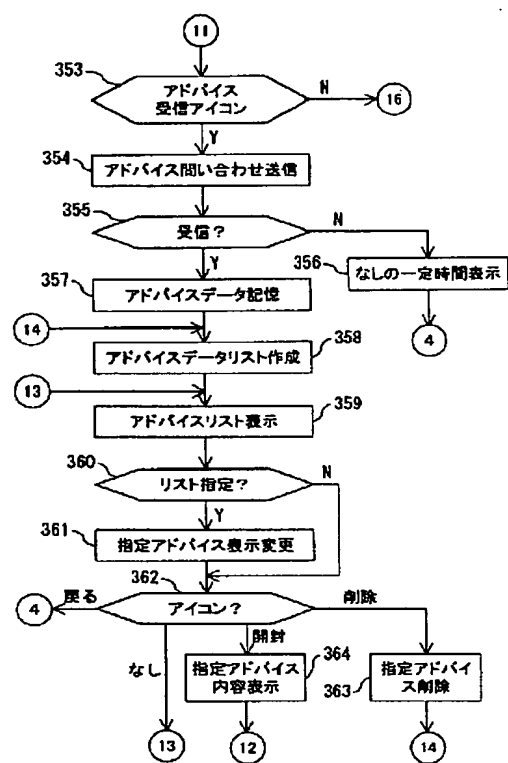
【図10】

サーバーにアクセスする、学習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き7)



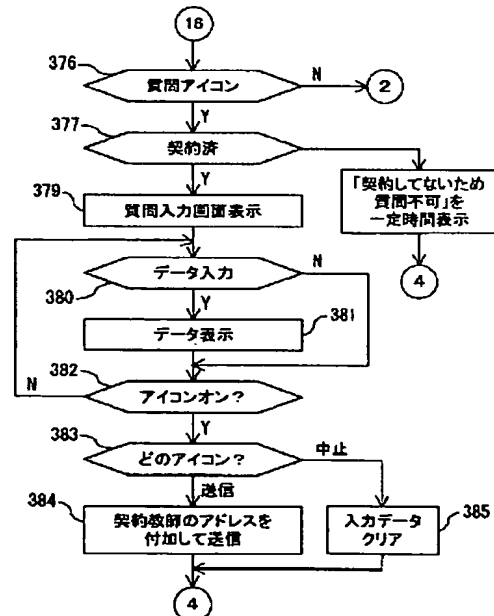
【図8】

サーバーにアクセスする、学習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き5)



【図11】

サーバーにアクセスする、学習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き8)



【図22】

無契約教師アドバイス表示画面を示す図

○	-----
○	-----
○	-----
○	-----
○	-----

契約      戻る

【図23】

契約済教師アドバイス表示画面を示す図

○	-----
○	-----
○	-----

削除      戻る

【図25】

質問入力画面を示す図

--	--

送信      中止

【図32】

先生用開始画面を示す図

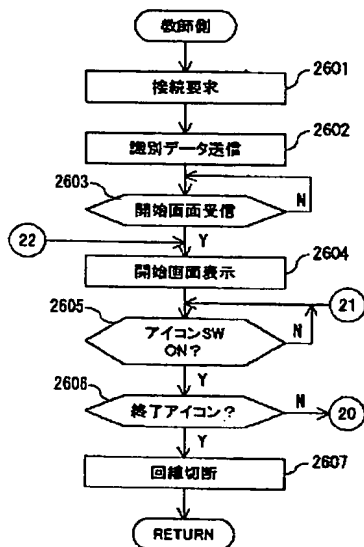
受信      送信

終了

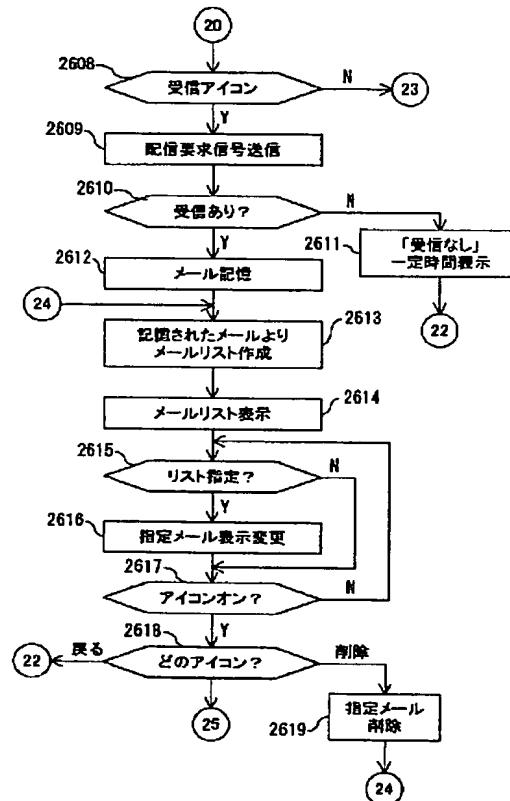
【図27】

【図26】

サーバーにアクセスする、教習者が使用する  
端末システムが実行する処理の流れを示すフローチャート



サーバーにアクセスする、教習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き1)



【図33】

受信画面を示す図

生徒A	質問
生徒B	演奏データ
生徒C	演奏データ
生徒A	演奏データ
生徒B	契約

開封      削除

戻る

【図34】

契約通知画面を示す図

提示された条件により、  
生徒Bとの契約が成立  
しました。

戻る

【図35】

メール内容表示画面を示す図

新しい生徒のです  
アドバイスして下さい

7741b

再生      停止

アドバイス  
入力      戻る

【図36】

無契約生徒アドバイス入力画面を示す図

アドバイス入力  
あなたの弾き方は～

条件

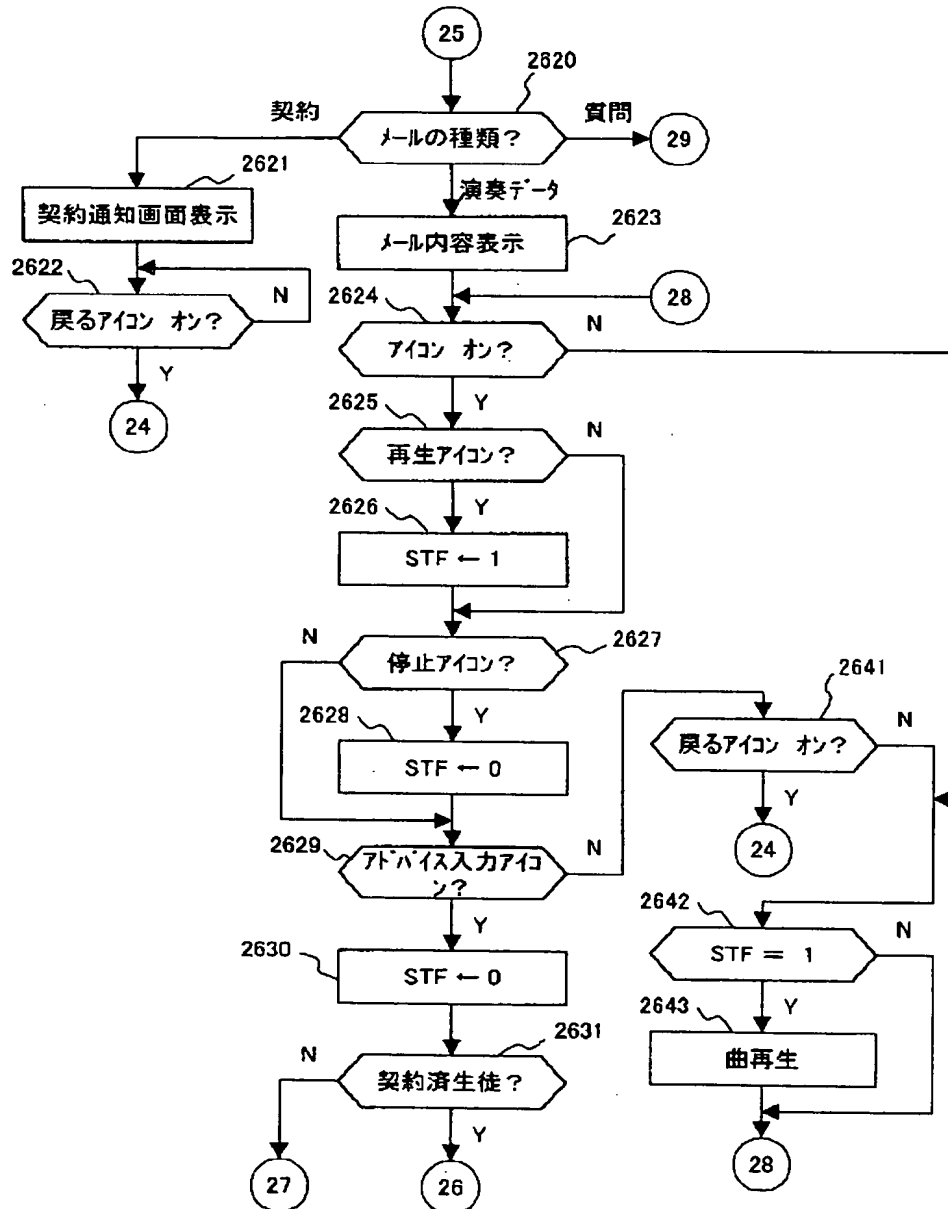
金額

その他

送信      中止

【図28】

サーバーにアクセスする、教習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き2)



【図39】

回答入力画面を示す図

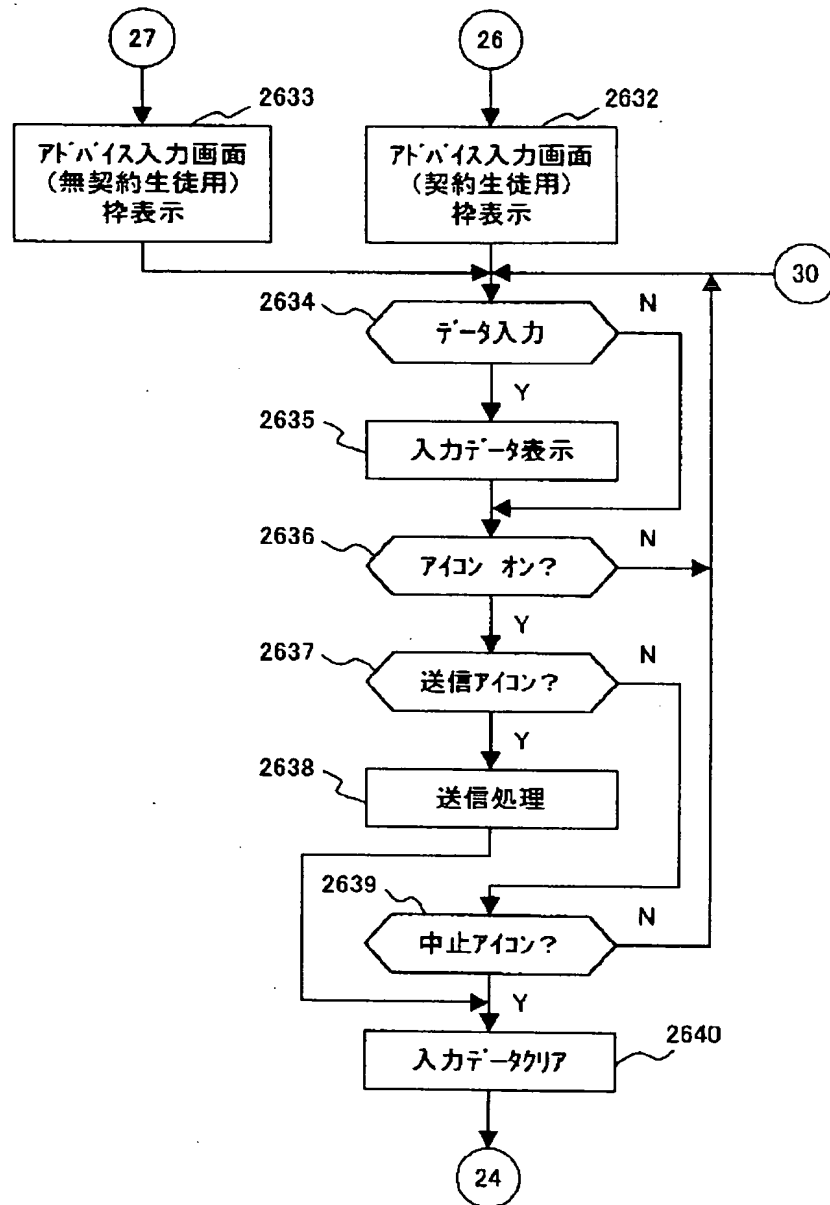
【図40】

送信画面を示す図



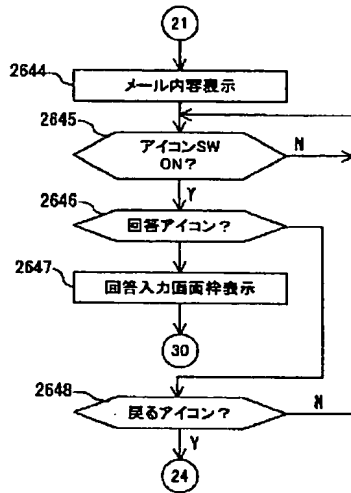
【図29】

サーバーにアクセスする、教習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き3)



【図30】

サーバーにアクセスする、教習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き4)



【図37】

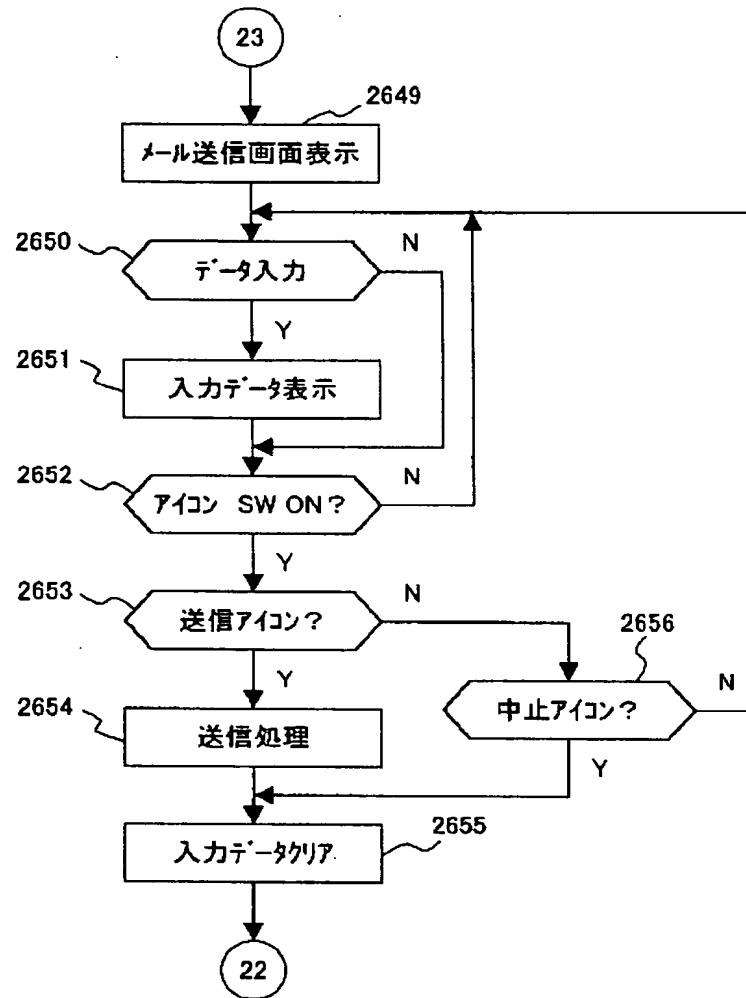
契約生徒に対するアドバイス入力画面を示す図

【図38】

契約生徒の質問メール表示画面を示す図

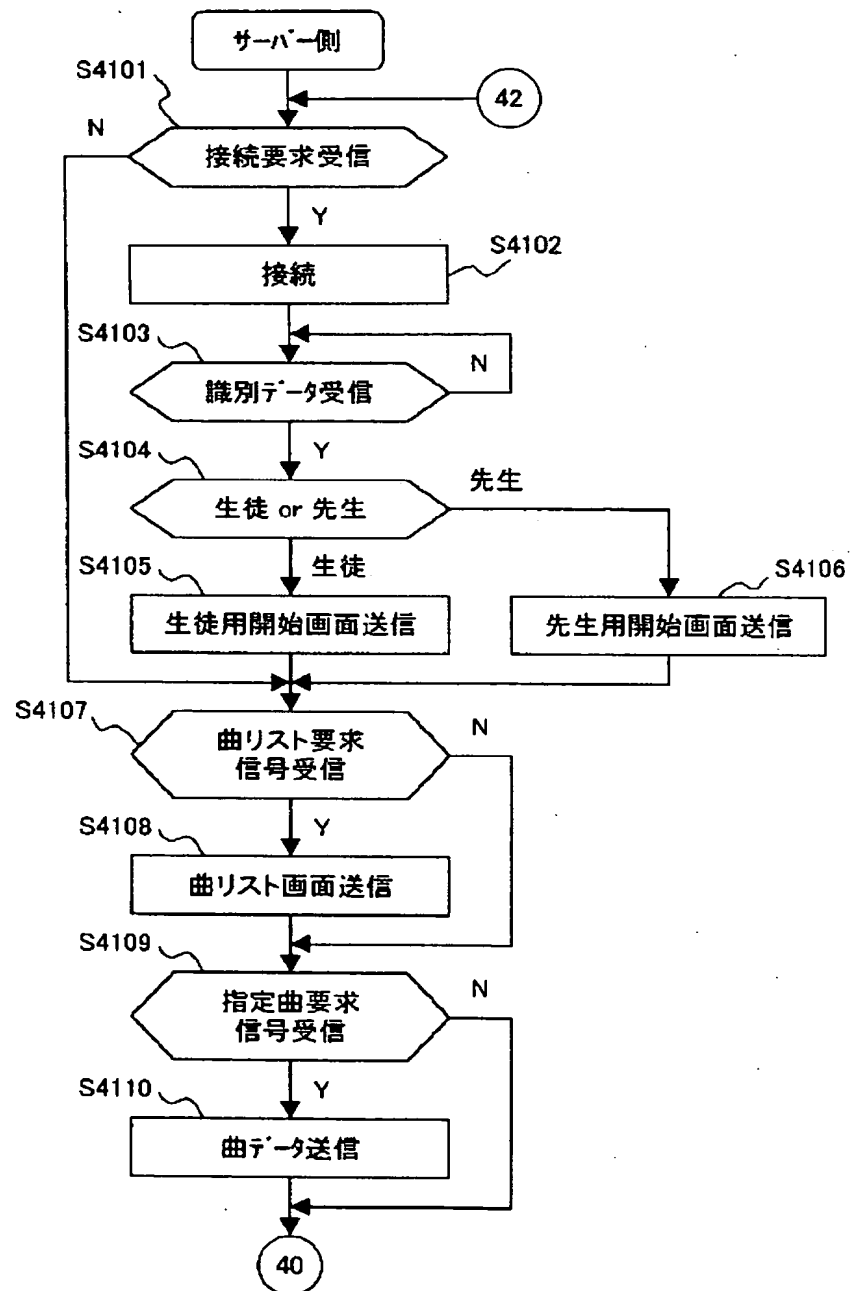
【図31】

サーバーにアクセスする、教習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き5)



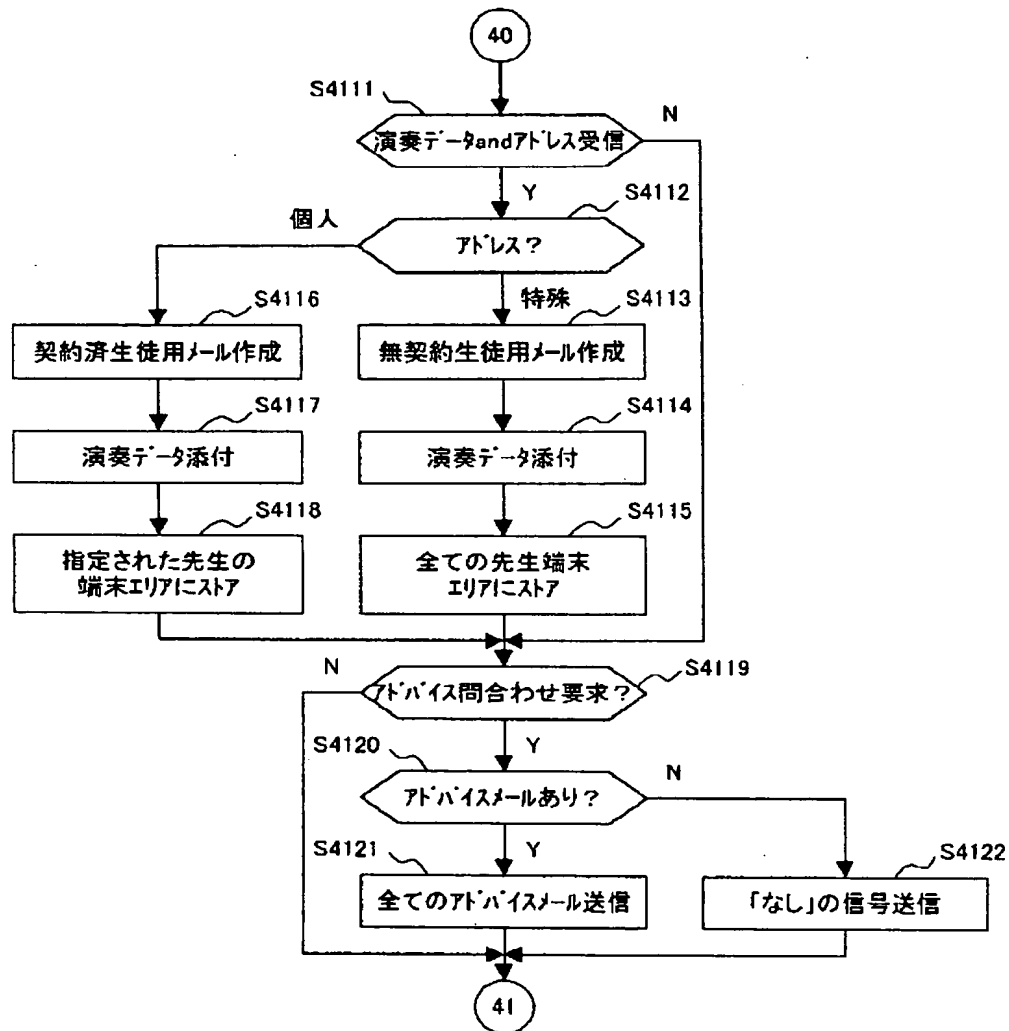
【図 41】

アクセスしてきた端末システムに対応するために  
サーバーが実行する処理の流れを示すフローチャート



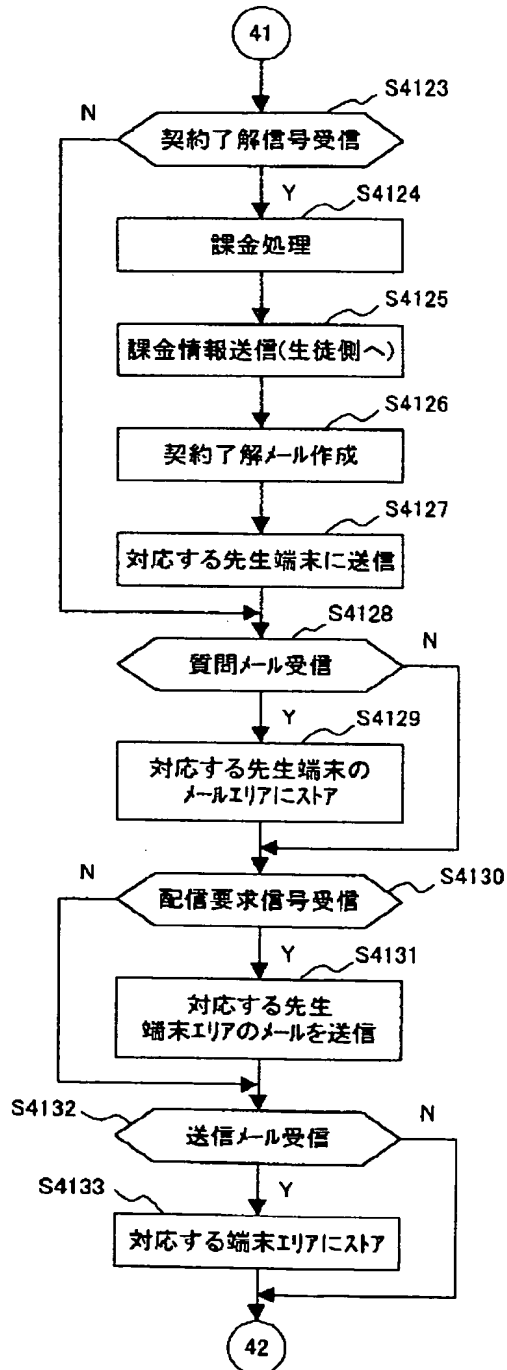
【図42】

アクセスしてきた端末システムに対応するために  
サーバーが実行する処理の流れを示すフローチャート(続き1)



【図43】

アクセスしてきた端末システムに対応するために  
サーバーが実行する処理の流れを示すフローチャート(続き2)



## PATENT ABSTRACTS OF JAPAN

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(72)Inventor : MOROKUMA HIROSHI

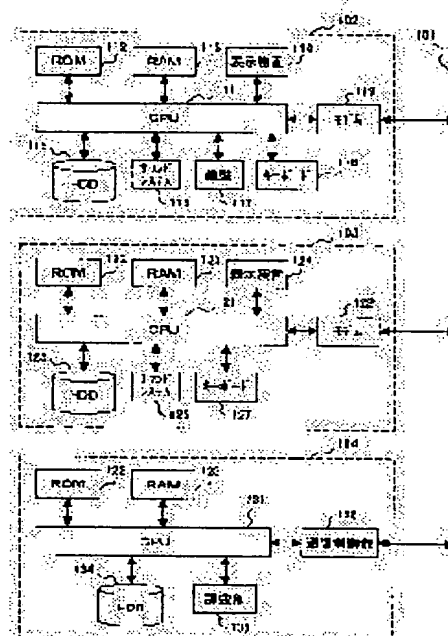
## (54) MUSIC CLASSROOM SYSTEM, DATA PROCESSING APPARATUS AND RECORDING MEDIUM

## (57)Abstract:

**PROBLEM TO BE SOLVED:** To provide a music classroom system which enables a learner to select a trainer who is conceivably suitable to himself or herself.

**SOLUTION:** A server 104 sends the playing data transmitted from a terminal system 102 used by the student concluding a contract with the trainer to a terminal system 103 used by this trainer and seeks advice for the same. The advice sent from the terminal system 103 is returned to the terminal system 102 transmitting the playing data. The playing data transmitted from the terminal system 102 used by the student not concluding the contract with the trainer is sent to the terminal systems 103 used by the respective trainers and seeks the advice for the same. As a result, respective pieces of the advice transmitted from the respective terminal systems 103 are returned as the information to be referenced in selecting the trainer to the terminal system 102 transmitting the playing data.

本発明の形態による音楽教室システムの構成を示す図



## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

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CLAIMS

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[Claim(s)]

[Claim 1] It is the system which realizes a music studio by connecting the student who desires study of a musical instrument through a network, and the training person who trains the student. Said system The 1st terminal unit which a student uses for said network, the 2nd terminal unit which a training person uses, Server \*\* which relays the exchange between said 1st terminal unit and said 2nd terminal unit is connected and built. And said 1st terminal unit A performance data transmitting means to transmit the performance data in which the contents of the performance actuation which the student performed to said musical instrument are shown to said server, An evaluation receiving means to receive evaluation of the training person to said performance data transmitted from said 2nd terminal unit through said server, The training person selection means for choosing the training person who sends said performance data and receives a lesson out of the training person who uses said 2nd terminal unit is provided. Said 2nd terminal unit A performance data receiving means to receive the performance data transmitted from said 1st terminal unit through said server, An evaluation transmitting means to transmit the evaluation to the performance data which said performance data receiving means received to said server is provided. Said server A performance data transfer means to transmit to said 2nd terminal unit which should be transmitted according to the selection result of the training person to whom the student who made these performance data transmit performed the performance data received from said 1st terminal unit using the training person selection means of said 1st terminal unit, The music studio system characterized by what an evaluation transfer means to transmit the evaluation received from said 2nd terminal unit to the 1st terminal unit which the student who should send this evaluation uses is provided for.

[Claim 2]

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DETAILED DESCRIPTION

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[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the technique for providing with the place of study the student who desires study of a musical instrument using a network.

[0002]

[Description of the Prior Art] There is a music studio to provide with the place of study those who want to learn a musical instrument. However, only those who can go to the time amount which it is opening can use the music studio, but its constraint by geographical and time conditions is large. There are not few people who have given up going to a music studio by the constraint. Recently from this, the music studio is opened using the Internet which is quickly developed as a global information infrastructure. By using the Internet, the person who was not able to circulate till then can also participate now in study of the musical instrument in a music studio from constraint geographical at least being avoided. A music studio system is a system which realizes a music studio using networks, such as the Internet.

[0003] Study of the musical instrument in a music studio is performed along with the curriculum defined beforehand. Conventionally, the training person (teacher) was assigned according to the course defined as a curriculum, and training to a student was made to perform. For this reason, the student was able to learn only from the training person assigned to the course which self learns.

[0004] A student asks for suitable advice, in order to achieve own study success. However, since it changes with a student's capacity, level, etc., suitable advice is not easy for performing it. As for the actual condition, there are many rates depending on a training person's capacity, affinity, etc.

[0005] Many of students who think that suitable advice was not able to be received come to have the dissatisfaction not a little. The dissatisfaction may reduce study volition or may serve as the motive to leave a music studio further. It is thought important to assign a student the training person suitable for the man from this.

[0006] It is in offering the music studio system which can choose the training person who thinks that a student suits himself. [ the technical problem's of this invention ]

[0007]

[Means for Solving the Problem] The student whom the music studio system of this invention expects study of a musical instrument through a network, It is the system which realizes a music studio by connecting the training person who trains the student. And the system The 1st terminal unit which a student uses for a network, the 2nd terminal unit which a training person uses, Server \*\* which relays the exchange between the 1st terminal unit and the 2nd terminal unit is connected and built. And the 1st terminal unit A performance data transmitting means to transmit to a server the performance data in which the contents of the performance actuation which the student performed to the musical instrument are shown, An evaluation receiving means to receive evaluation of the training person to the performance data transmitted from the 2nd terminal unit through a server, The training person selection means for choosing the training person who sends performance data and receives a lesson out of the training person who uses

the 2nd terminal unit is provided. The 2nd terminal unit A performance data receiving means to receive the performance data transmitted from the 1st terminal unit through a server, An evaluation transmitting means to transmit the evaluation to the performance data which the performance data receiving means received to a server is provided. A server A performance data transfer means to transmit to the 2nd terminal unit which should be transmitted according to the selection result of the training person to whom the student who made these performance data transmit performed the performance data received from the 1st terminal unit using the training person selection means of the 1st terminal unit, An evaluation transfer means to transmit the evaluation received from the 2nd terminal unit to the 1st terminal unit which the student who should send this evaluation uses is provided.

[0008] The student whom the data processor of the 1st mode of this invention expects study of a musical instrument through a network, And it is premised on being used as a server by the system which realizes a music studio by connecting the training person who trains the student. The student who uses the 1st terminal unit responds to the training person who chose from the training persons who use the 2nd terminal unit. A performance data transfer means to transmit to the 2nd terminal unit which should transmit the performance data in which the contents of the performance actuation to the musical instrument received from this 1st terminal unit are shown, An evaluation transfer means to transmit the evaluation received from the 2nd terminal unit to the 1st terminal unit which the student who should send this evaluation uses is provided.

[0009] In addition, the data processor of the 1st mode of the above distributes the performance data received from the 1st terminal unit which the student who has not chosen the training person uses to two or more 2nd terminal units, and each training person is asked for the evaluation to these performance data, respectively. By transmitting the evaluation transmitted from these two or more 2nd terminal units, respectively to this 1st terminal unit, what a student is provided with the information which should be referred to when choosing the training person who sends these performance data and receives a lesson for is desirable.

[0010] The student whom the data processor of the 2nd mode of this invention expects study of a musical instrument through a network, And it is premised on being used for a student by the system which realizes a music studio by connecting the training person who trains the student. A performance data transmitting means to transmit to a server through a network in order to send the performance data in which the contents of the performance actuation which the student performed to the musical instrument are shown to a training person, The training person selection means for choosing an evaluation receiving means to receive from a server evaluation of the training person to the performance data which the performance data transmitting means transmitted, and the training person who sends performance data and receives a lesson out of a training person is provided.

[0011] The student whom the record medium of the 1st mode of this invention expects study of a musical instrument through a network, And it is the record medium which the equipment used as a server by the system which realizes a music studio by connecting the training person who trains the student can read. The student who uses the 1st terminal unit responds to the training person who chose from the training persons who use the 2nd terminal unit. The function transmitted to the 2nd terminal unit which should transmit the performance data in which the contents of the performance actuation to the musical instrument received from this 1st terminal unit are shown, The program for realizing the function to transmit the evaluation received from the 2nd terminal unit to the 1st terminal unit which the student who should send this evaluation uses is recorded.

[0012] The student whom the record medium of the 2nd mode of this invention expects study of a musical instrument through a network, And it is the record medium which the equipment used for a student by the system which realizes a music studio by connecting the training person who trains the student can read. The function transmitted to a server through a network in order to send the performance data in which the contents of the performance actuation which the student performed to the musical instrument are shown to a training person, The program for realizing the function for choosing the function to receive evaluation of the training person to the performance data transmitted by the function to transmit from a server, and the training

person who sends performance data and receives a lesson out of a training person is recorded.

[0013] The student who is the student of the music studio realized in this invention using a network is made to choose the training person who desires a lesson from the training persons who are the teachers of the music studio, the training person whom the student chose is made to send and evaluate the performance data to which the student made it transmit, and the evaluation is returned to the student (transmitting person of performance data). Thereby, a student can receive now the lesson by the training person considered to be suitable for himself.  
[ whom self chose ]

[0014]

[Embodiment of the Invention] Hereafter, the gestalt of operation of this invention is explained to a detail, referring to a drawing. Drawing 1 is drawing showing the music studio structure of a system by the gestalt of this operation. As shown in drawing 1, the system realizes a music studio using a network 101, and the terminal system 102 which the student who is the student of a music studio uses for the network 101, the terminal systems 103 which the training person who is the teacher of a music studio uses and those systems 102, and the server 104 which mediates an exchange of the data between 103 are connected, and it is constituted.

[0015] The above-mentioned network 101 expresses the Internet, a public line, a dedicated line, etc. collectively. For example, the terminal systems 102 and 103 are connected with the Internet through a public line and ISP (Internet Service Provider) which is performing the connection service with the Internet. The server 104 of another side is connected with the Internet through the dedicated line. It is because the geographical constraint in a training person (teacher) is avoided, and a training person (teacher) is not concerned with a location but training to a student can be performed to connect the terminal system 103 to the server 104 through the Internet. In addition, you may make it connect using a different network between them, as it said that the Internet was used between the terminal system 102 and a server 104, and LAN was used between the terminal system 103 and a server 104.

[0016] The above-mentioned terminal system (it is henceforth written as a terminal) 102 is for the user (student who is the student of a music studio) to learn a musical instrument. As shown in drawing 1, with CPU111 which controls the terminal 102 whole For example, ROM112 which memorized the program in connection with I/O of data, The display 114 whose CPU111 is RAM113 and CRT which are used for work pieces, or LCD, It has the hard disk drive unit (HDD) 115 which has a hard disk, the sound system 116 which carries out sound emission of the musical sound according to directions of CPU111, a keyboard 117, a keyboard 118, and the modem 119 that transmit and receive data through a public line, and is constituted.

[0017] The terminal 102 of such a configuration can be realized by adding a network function etc. to the electrophone equipped with the keyboard 117, or connecting a keyboard (electrophone) 117 etc. to a personal computer (it being henceforth written as PC). That is, it can be made to realize by connecting one equipment or two or more equipments. You may make it provide the person who became the student of a music studio with equipments, such as the keyboard 117 which should connect with the electrophone to which the network function was added, or PC, in forms, such as sale or lease. A sound system 116 reproduces the music data downloaded from the server 104, or consists of loudspeakers which change into voice the sound source which is for carrying out sound emission of the musical sound according to the actuation to a keyboard 117, for example, generates the data point of musical sound, the A/D converter which changes into the audio signal of an analog the data point outputted from the sound source, the amplifier which performs magnification of the audio signal, and the audio signal which the amplifier amplified.

[0018] The above-mentioned terminal system (it is henceforth written as a terminal) 103 is for the user (training person who is the teacher of a music studio) to train the musical instrument to a student. As shown in drawing 1, with CPU121 which controls the terminal 103 whole For example, ROM122 which memorized the program in connection with I/O of data, The display 124 whose CPU121 is RAM123 and CRT which are used for work pieces, or LCD, It has the hard disk drive unit (HDD) 125 which has a hard disk, the sound system 126 which carries out sound emission of the musical sound according to directions of CPU121, a keyboard 127, and the

modem 128 which transmit and receive data through a public line, and is constituted. It can be made to realize by connecting one equipment or two or more equipments like the above-mentioned terminal 102. In addition, the terminal 103 of such a configuration can be realized by carrying a modem 128 and a sound system 126 in PC, and connecting a keyboard 127 and a display 124 to it. The sound system 126 is for mainly reproducing the performance data transmitted by the student, and its configuration is fundamentally [ as the above-mentioned sound system 116 ] the same.

[0019] Since the above-mentioned server 104 realizes a music studio, he installs [ a contractor ]. As shown in drawing 1 , with CPU131 which controls the whole, ROM132 and CPU131 which memorized the program in connection with I/O of data are equipped with RAM133 used for work pieces, the hard disk drive unit (HDD) 134 which has a hard disk, the accounting section 135 which performs accounting to a student according to directions of CPU121, and the communications control section 136 which transmit and receive data through a dedicated line, and they are constituted.

[0020] The program and the various data (Network Operating System (OS) etc.) which CPU131 performs are stored in the hard disk carried in HDD134. As data for offering the service as a music studio, the thing as shown in drawing 2 is stored. As the data, especially, an important thing is extracted, it expresses notionally and a folder or a directory corresponds to the drawing 2 in fact [ the area in drawing 2 ].

[0021] The data of the music which a student should make a model are stored in the music data area shown in drawing 2 . The music data is gathered in the form of SMF (Standard MIDI File). The data transmitted or transmitted to the terminal 103 are stored in the terminal area for teachers every terminal (training person who is a teacher) 103. The data is a question from a student, performance data showing the contents of the performance actuation to a keyboard 117, etc., and they are transmitted in the form of e-mail.

[0022] The data transmitted or transmitted to the terminal 102 are stored in the terminal area for students every terminal (student who is a student) 102. The data is the advice from for example, a training person, a reply (reply to a question), accounting information, etc., and they are transmitted in the form of e-mail. In addition to it, the data (for example, HTML data) of screens including various kinds, such as an object for students and an initiation screen for teachers, a music list screen, and an accounting information screen, are stored in the hard disk.

[0023] By the way, although the explanation with an especially detailed application of a student is omitted, individual humanity news, such as a need matter, for example, an identifier and the address, a mail address, and a card number of a credit card, is entered, for example in a predetermined form, and it carries out by submitting it to a music studio (contractor who is opening it). A music studio side notifies the person who made it such and applied of ID and the password for identifying that he is a student, and secures the area for the men in the terminal area for students to him (refer to drawing 2 ). Thereby, when the service as a student accesses a server 104, it presents the ID and password and receives them. Record media, such as CD-ROM which recorded software required for those who use PC as a terminal 102 when performing study in a music studio, are distributed, and it is made to install on a hard disk. In addition, you may enable it to carry out by an application of a student accessing the server 104 instead of a document with a natural thing.

[0024] The training person of another side has adopted through a predetermined procedure, in order to avoid employing as a teacher those incapable and those who are not suitable. To the person who adopted as a teacher, ID and a password are published like a student, for the exchange with a student, the address of dedication is assigned and the area for the men is further secured in the terminal area for teachers (refer to drawing 2 ). When ID and a password access a server 104, they are shown, and they perform a role of a teacher.

[0025] Actuation is explained in the above configuration. A terminal 102 is connected with the server 104 by specifying a server's 104 URL and directing connection, after making it connect with ISP through a public line by dial up (a link is established). A server 104 reads the input screen which stimulates the input of ID and a password from a hard disk to the terminal 102 which specified the URL and has accessed it, and transmits to it.

[0026] A terminal 102 displays on a display 114 the input screen which received from the server 104. Although not illustrated especially in the input screen, ID, two input boxes for the input of a password, "O.K." icon, "cancellation" icon, etc. are arranged, for example. If a student clicks on "O.K." icon after operating a keyboard 118 and entering ID and a password into those input boxes, respectively, ID and the password which were entered will transmit to a server 104 as an access person's discernment data. In addition, the click of an icon is performed by operating the pointing device (for example, mouse) which operates the keys (a cursor key, enter key, etc.) prepared in the keyboard 118, or is not illustrated especially. This is the same also in a terminal 103.

[0027] A server 104 attests by checking whether combination of ID which received from the terminal 102, and a password is saved at the hard disk (registration). If an access person checks that he is a student according to the authentication, the initiation screen shown in drawing 12 from a hard disk will be transmitted to a terminal 102. This provides the user of a terminal 102 with the service as a student of a music studio henceforth.

[0028] End of other end 103 as well as the above-mentioned terminal 102 is connected with a server 104. What the user of the terminal 103 linked to a server 104 enters on an input screen is ID and the password which are registered as a teacher's thing. For this reason, the server 104 which received them as discernment data transmits the initiation screen shown in drawing 32 from a hard disk to a terminal 103. Thereby, the business as a teacher of a music studio is made to perform to the user of a terminal 103 henceforth.

[0029] Next, with reference to drawing 3 - drawing 11, drawing 26 - drawing 31 and the various flow charts shown in drawing 41 - drawing 43, drawing 12 - drawing 25, and the various explanatory views shown in drawing 32 - drawing 40, the contents of actuation of the terminals 102 and 103 which realize a music studio, and a server 104, and the service offered in the music studio are explained to a detail.

[0030] The flow chart with which drawing 3 - drawing 11 access a server 104 and which shows the flow of the processing which the terminal 102 which a student uses performs, drawing 12 - drawing 25 are drawings showing the screen displayed by the display 114 during the access. With reference to introduction and those drawings, actuation of a terminal 102 and the service with which the student who is the user is provided by it are explained to a detail. In addition, as for the flow chart shown in drawing 3 - drawing 11, CPU111 is realized because HDD115 performs the programs (OS, browser, etc.) read from the hard disk.

[0031] First, at step 301, a connection request is transmitted to a server 104. When a server's 104 URL is specified and a student directs connection after making it connect with ISP as it is a signal containing a server's 104 URL and being mentioned above for example, CPU111 makes the connection request transmit from a modem 119.

[0032] A server 104 transmits the input screen which urges the input of ID and a password to the terminal 102 connected by the connection request (a link is established). At step 302 following step 301, the input screen which received is displayed on an indicating equipment 114, ID or a password is entered according to the actuation to a student's keyboard 118, and it transmits to a server 104 by using as discernment data ID into which it waited for a user to click on "O.K." icon on the input screen, and the user inputted it, and a password. It waits to shift to step 303 after that and to receive the initiation screen shown in drawing 12 from a server 104.

[0033] If the initiation screen is received from a server 104, it will shift to step 304 from step 303. The received initiation screen is displayed on a display 114 at the step 304. At continuing step 305, it waits to click on the icon arranged on the initiation screen (ON). If a user clicks on which icon arranged on an initiation screen, it will shift to step 306.

[0034] As shown in the above-mentioned initiation screen at drawing 12, a "music list", "playback", "advice reception", "sound recording", "performance data transmission", "question transmission", and "termination" icon are arranged. A "music list" icon is for requiring offer of the service which downloads the music data which a server 104 holds (purchase), and "playback" icon is for directing playback of music data [ finishing / download ]. An "advice receiving" icon is for requiring reception of the replies (advice to the reply and performance to a question etc.) from a training person stored in the area assigned to itself in the terminal area for

students. "Sound recording" icon is for directing the sound recording performed in the form to a keyboard 117 which records the contents of actuation. A "performance data transmitting" icon is for requiring transmission of the performance data obtained by the sound recording. A "question" icon is for requiring transmission of a question of a training person. "Termination" icon is for directing discharge of the link established among servers 104. The user of a terminal 102 clicks one of them, and demands desired service. Processing after step 306 is performed in order to provide a user with desired service.

[0035] First, at step 306, having been clicked (ON) judges whether it is "termination" icon. When a user clicks on a "termination" icon, after a judgment serves as YES, shifts to step 307 and makes a link (connection) with a server 104 cancel (cutting), it ends a series of processings. When that is not right (i.e., when a user clicks on icons other than "termination" icon), a judgment serves as NO and shifts to step 308 shown in drawing 4.

[0036] At the step 308, having been clicked judges whether it is a "music list" icon. When it clicks on the "music list" icon on the initiation screen which a user shows to drawing 12, a judgment serves as YES and shifts to step 309. When that is not right, a judgment shifts to step 319 which serves as NO and is shown in drawing 5.

[0037] At step 309, the signal (music list request signal) which requires the downloadable list of music is transmitted to a server 104. the music list screen shown in drawing 13 from the server 104 which transmitted the signal at continuing step 310 — receiving \*\*\*\*\* — waiting. If the music list screen is received, after shifting to step 311 and displaying it on a display 114, it shifts to step 312.

[0038] As shown in the above-mentioned music list screen at drawing 13, a list indication of the music name of the music data made into the object of download (transfer) stored in the music data area is given. "Decision" icon and the icon "returning" are arranged as an icon. After a user clicks the music name for which it asks and specifies music, he downloads the music data of the music by clicking on "decision" icon.

[0039] At step 312, it judges whether music was newly specified. When a user clicks which music name currently displayed as a list, a judgment serves as YES, shifts to step 313, and after it changes the display of the newly specified music name into what shows a selection condition, it shifts to step 314. When that is not right, a judgment serves as NO, and it shifts to the step 314, without performing processing of other steps.

[0040] At step 314, it judges whether it clicked on the icon (ON). When a user clicks on "decision" icon or the icon "returning", a judgment serves as YES and shifts to step 315. When that is not right, a judgment serves as NO and returns to the above-mentioned step 312.

[0041] The class of icon on which the user clicked is judged at step 315. When a user clicks on "decision" icon, that is judged, it shifts to step 316, and the assignment music demand signal which requires download of the music data of a music name which are in current and a selection condition is transmitted to a server 104. It waits to shift to step 317 after that and to receive the music data demanded from the server 104. On the other hand, when a user clicks on the icon "returning", that is judged and it returns to the above-mentioned step 304.

[0042] If music data are received from a server 104, it will shift to step 318 from step 317. The received music data are stored in the storing location (for example, folder) beforehand secured to the hard disk at the step 318. It returns to the above-mentioned step 312 after that.

[0043] Repeat activation of the processing loop formation formed at the above-mentioned steps 312-318 is carried out until having been clicked at step 315 judges with it being the icon "returning." While the music list screen shown in drawing 13 is displayed on the indicating equipment 114 by that cause, a user can download assignment of desired music, and the specified data of music at any time.

[0044] At step 319 of drawing 5 to which the judgment of the above-mentioned step 308 serves as NO, and shifts, having been clicked judges whether it is "playback" icon. When it clicks on "playback" icon on the initiation screen which a user shows to drawing 12, a judgment serves as YES and shifts to step 320. When that is not right, a judgment shifts to step 331 which serves as NO and is shown in drawing 6.

[0045] At step 320, a setmaster music list screen (HTML data) as shown in drawing 14 based on

the music data downloaded and stored from the server 104 (preservation) is created. The created setmaster music list screen is displayed on a display 114 at continuing step 321. It shifts to step 322 after that. In addition, creation of a setmaster music list screen is performed by inserting the music name of the music data which CPU111 made read a setmaster music list screen without the music list saved beforehand at the hard disk to RAM113, and downloaded from the server 104 in the screen.

[0046] As shown in the setmaster music list screen created by making it such at drawing 14, a list indication of the music name of the refreshable music data downloaded from the server 104 is given. As an icon, the "start" icon, the "stop" icon, and the icon "returning" are arranged. After a user clicks the music name for which it asks and specifies music, he directs playback of music data by clicking on a "start" icon. Termination of the playback is directed by clicking on a "stop" icon.

[0047] At step 322, it judges whether music was newly specified. When a user clicks which music name currently displayed as a list, a judgment serves as YES, shifts to step 323, and after it changes the display of the newly specified music name into what shows a selection condition, it shifts to step 324. When that is not right, a judgment serves as NO, and it shifts to the step 324, without performing processing of other steps.

[0048] At step 324, it judges whether it clicked on the icon (ON). When a user clicks on a "start" icon, a "stop" icon, or the icon "returning", a judgment serves as YES and shifts to step 325. When that is not right, a judgment serves as NO and returns to the above-mentioned step 322.

[0049] The class of icon on which the user clicked is judged at step 325. When a user clicks on a "start" icon, a judgment serves as YES and shifts to step 326. When that is not right (i.e., when a user clicks on icons other than a "start" icon), a judgment serves as NO and shifts to step 328.

[0050] At step 326, the music data of a music name which are in current and a selection condition are reproduced. At continuing step 327, it judges whether the playback was completed. When the playback is not completed, a judgment serves as NO and returns to the above-mentioned step 325. When that is not right, a judgment serves as YES and returns to the above-mentioned step 322. In addition, playback of music data is performed by sending out the MIDI data with which it was added to the sound source of a sound system 116 according to the time data added to the MIDI data with which CPU111 constitutes it.

[0051] At step 328 to which the judgment of the above-mentioned step 325 serves as NO, and shifts, it judges whether it clicked on the "stop" icon. When a user clicks on a "stop" icon, after a judgment serves as YES, shifts to step 329 and stops playback of music data (termination), it returns to the above-mentioned step 322. When that is not right, a judgment serves as NO and shifts to step 330.

[0052] At step 330, it judges whether it clicked on the icon "returning." When a user clicks on the icon "returning", a judgment serves as YES, and if there are music data under playback, after stopping the playback (termination), it returns to the above-mentioned step 304. When that is not right, a judgment serves as NO and returns to the above-mentioned step 325.

[0053] After specifying music and clicking on a "start" icon Namely, after the judgment of step 325 serves as YES Playback of the specified music data is completed at the step 325, or (does the judgment of step 327 serve as YES?) Click on a "stop" icon, and stop playback (termination), or (does the judgment of step 328 serve as YES?) Or between until it clicks on the icon "returning" and displays a front screen (initiation screen shown in drawing 12 here) (the judgment of step 330 serves as YES), It carries out by music data doubling the judgment of being under playback, and if music data are under playback even if it does not click on a "start" icon, it will judge with YES. This performs in the meantime according to the class of icon which had processing of steps 325-330 clicked.

[0054] At step 331 of drawing 6 to which the judgment of the above-mentioned step 319 serves as NO, and shifts, having been clicked judges whether it is "sound recording" icon. When it clicks on "sound recording" icon on the initiation screen which a user shows to drawing 12, a judgment serves as YES and shifts to step 332. When that is not right, a judgment shifts to step 342 which serves as NO and is shown in drawing 7.



[0055] At step 332, a setmaster music list screen (HTML data) as shown in drawing 15 is created like step 320 mentioned above. The created setmaster music list screen is displayed on a display 114 at continuing step 333. It shifts to step 334 after that.

[0056] At step 334, it judges whether music was newly specified. When a user clicks which music name currently displayed as a list, a judgment serves as YES, shifts to step 335, and after it changes the display of the newly specified music name into what shows a selection condition, it shifts to step 336. When that is not right, a judgment serves as NO, and it shifts to the step 336, without performing processing of other steps.

[0057] At step 336, it judges whether it clicked on the icon (ON). When a user clicks on "decision" icon or the icon "returning", a judgment serves as YES and shifts to step 337. When that is not right, a judgment serves as NO and returns to the above-mentioned step 334.

[0058] The class of icon on which the user clicked is judged at step 337. When a user clicks on "decision" icon, that is judged and it shifts to step 338. When that is not right (i.e., when a user clicks on the icon "returning"), that is judged and it returns to the above-mentioned step 304.

[0059] The score which expressed the musical sound (key which should be carried out key pushing) which should be made to pronounce by the note is created based on the music data of a music name which are in the selection condition, and a display 114 is made to display a sound recording score screen as shown in drawing 16 which has arranged it on it at step 338 now. At continuing step 339, it judges whether it clicked on the "sound recording start" icon (ON). When a user clicks on the icon, after a judgment serves as YES, shifts to step 340 and records in the form to a user's keyboard 117 which records the contents of performance actuation, it returns to the above-mentioned step 338. When that is not right, a judgment serves as NO and shifts to step 341.

[0060] At step 341, it judges whether it clicked on the "sound recording stop" icon. When a user clicks on the icon, a judgment serves as YES, and if it is under sound recording till then, after it saves as a file the performance data obtained by the sound recording in the storing location which was able to be appointed beforehand, it displays a setmaster music list screen as returned to the above-mentioned step 333 and shown in drawing 15 on a display 114. When that is not right, a judgment serves as NO and records by shifting to the above-mentioned step 340.

[0061] Repeat activation of the processing loop formation formed at the above-mentioned steps 338-341 is carried out until the judgment of step 341 clicks YES and a user clicks on a "sound recording stop" icon. Thereby, the following is realized. A keyboard 117 detects the performance actuation (key pushing and key-release) to it, generates the MIDI data showing the contents, and outputs them to CPU111. CPU111 makes the musical sound which should be made to pronounce according to the performance actuation to a keyboard 117 pronounce on real time by sending it out to the sound source of a sound system 116. The time amount clocked with the hard timer carried, for example in it when the user clicked on the "sound recording start" icon is supervised, it records by adding the time data which shows the timing (delta time which is the time amount from the last event) which should process it to the MIDI data received from the keyboard 117, and the MIDI data which added time data are stored in a hard disk RAM113 or if needed. Performance data are created in the form of SMF to recording by making it such. In addition, the music name is taken as the thing of the specified music data.

[0062] As mentioned above, the MIDI data which constitute music data are processed according to the time data added to it. CPU111 specifies the MIDI data which should be processed by the time amount which has passed based on the time data added to MIDI data since sound recording initiation (time amount which has passed after clicking on the "sound recording start" icon), and updates the contents of the score to display according to the specified MIDI data. According to the passage of time, he updates the contents of the score at any time, and is trying to always display the part considered that the user is performing by that cause at the time of sound recording. Renewal of the contents of the score is performed at step 338.

[0063] At step 342 of drawing 7 to which the judgment of the above-mentioned step 331 serves as NO, and shifts, having been clicked judges whether it is a "performance data transmitting" icon. When it clicks on the "performance data transmitting" icon on the initiation screen which a user shows to drawing 12, a judgment serves as YES and shifts to step 343. When that is not

right, a judgment shifts to step 353 which serves as NO and is shown in drawing 8 .

[0064] At step 343, it judges whether there are any performance data set as the object of transmission. After a judgment serving as NO and shifting to step 344, when performance data are not stored in the storing location, reading a performance-data-less warning screen in order to notify a purport without the performance data set as the object of transmission, as shown in drawing 17 from a hard disk and making it display on a display 114, it returns to the above-mentioned step 304. When that is not right, a judgment serves as YES, shifts to step 345, and after reading an addressing screen as shown in drawing 18 from a hard disk and making it display on a display 114, it shifts to step 346.

[0065] He is trying to make the training person (teacher of a music studio) who receives instruction in a user (student who is the student of a music studio) choose freely with the gestalt of this operation. Thereby, a student (student) can choose freely the training person who performs suitable instruction for himself and who it is easy to receive instruction or is considered to be congenial. Consequently, a student can reduce a training person and the dissatisfaction further held to a music studio. For a training person, if not chosen, since an income cannot be obtained, it reflects on the own way or teaching how comes to consider more deeply whether it is suitable. A student can be provided with the environment where a musical instrument can be learned more comfortably, also from such a thing.

[0066] As mentioned above, the address according to individual is given to the training person for the exchange with a student. From this, by the terminal 102 side, if a contract is performed with a training person, the training person's address will be registered. It enables it to send performance data, a question, etc. to the training person who contracted by that cause.

[0067] At step 346, it judges whether it is finishing [ a training person and a contract ]. When the address is not registered since a training person's address is not registered (preservation) if it does not contract, a judgment serves as NO and shifts to step 348. When that is not right, a judgment serves as YES, shifts to step 347, and after displaying the address of the training person (teacher) who contracted in the input box of an addressing screen as shown in drawing 18 , it shifts to the step 348.

[0068] Thus, if it has not contracted with a training person, an addressing screen is still the condition that it is shown in drawing 18 , and if it has contracted with the training person, it will be in the condition that it is shown in drawing 19 , by displaying the address of the training person who contracted on the input box of the screen. Thereby, for a student, it requires whether self has contracted with the training person by recognition by whether the address was displayed on the input box of an addressing screen.

[0069] As shown in the above-mentioned addressing screen at drawing 18 or drawing 19 , the "transmitting" icon and the "termination" icon are arranged. At step 348, it judges whether it clicked on the "transmitting" icon (ON). When the user who is a student clicks on a "transmitting" icon, a judgment serves as YES and shifts to step 350. When that is not right, a judgment serves as NO and shifts to step 349.

[0070] At step 349, it judges whether it clicked on the "termination" icon (ON). When the user who is a student clicks on a "termination" icon (i.e., when the termination of transmission of performance data is directed), a judgment serves as YES and returns to the above-mentioned step 304. When that is not right, it judges whether the judgment was set to NO, and it returned to the above-mentioned step 348, and clicked on the "transmitting" icon again.

[0071] At one step 350, it judges whether the address is in the input box of an addressing screen. Since the address is displayed on the input box, a judgment serves as YES, and when the user has finished the contract with a training person, after it adds the address to performance data at step 351 and transmits to a server 104, it returns to the above-mentioned step 304. When that is not right (i.e., when the training person who has contracted does not exist), a judgment serves as NO, shifts to step 352, and after it adds the special address to performance data and transmits, it returns to the above-mentioned step 304.

[0072] Although especially performance data [ finishing / transmission ] are not illustrated, the storing location till then adds the data which move to a different storing location or show it that it is transmitting ending. This distinguishes whether it is finishing [ transmission ] and he is trying

to transmit only for the performance data which are not transmitted. In addition, performance data may enable it to transmit what accessed record media, such as a floppy (trademark) disk, and was acquired. The terminal 102 does not need to be equipped with the keyboard 117 so that clearly from this.

[0073] The above-mentioned special address shows all training persons transmitting performance data. He asks for the advice (evaluation) to the performance data, and is trying to return the advice to a transmitting person (student with whom the contract cannot be managed) by transmitting performance data to all training persons. The training person suitable for himself is discovered to a student, and it enables it to contract from the advice to performance data to him by that cause. For a student, since a training person's capacity, sensibility or the method of instruction, etc. can be judged from advice, the training person suitable for himself can be appropriately discovered now, and a higher study result can be attained. When choosing a training person, the advice can serve as very precious information for a student, so that clearly from this.

[0074] At step 353 of drawing 8 to which the judgment of the above-mentioned step 342 serves as NO, and shifts, having been clicked judges whether it is an "advice receiving" icon. When it clicks on the "advice receiving" icon on the initiation screen which a user shows to drawing 12, a judgment serves as YES and shifts to step 354. When that is not right, a judgment shifts to step 376 which serves as NO and is shown in drawing 11.

[0075] At step 354, an inquiry whether a server 104 has the replies addressed to a user (advice or reply) is transmitted. At continuing step 355, it judges whether the reply to the inquiry is received and there is any reply from the reply. When the reply is not stored in the area (refer to drawing 2) assigned to the user in the terminal area for students, as a result of notifying that by reply, a judgment serves as NO, shifts to step 356, reads an advice-less warning screen as shown in drawing 20 from a hard disk, and fixed time amount and after making it display, it returns to a display 114 at the above-mentioned step 304. When that is not right, a judgment serves as YES and shifts to step 357.

[0076] At step 357, the data (advice data) of the e-mail format transmitted as a reply from the server 104 are stored in RAM113 or a hard disk. At continuing step 358, an advice list screen as shown in drawing 21 using the advice data memorized at step 367 is created. If it is created, it will shift to step 359 and the created screen will be displayed on a display 114. It shifts to step 360 after that. In addition, CPU111 makes the advice list screen which was stored in the hard disk and where a list does not exist read to RAM113, and creation of an advice list screen is performed by inserting the title in advice data, and a training person's address into the screen.

[0077] As shown in the advice list screen at drawing 21, the list of replies transmitted by the training person is arranged, and "opening" icon, "deletion" icon, and the icon "returning" are arranged as an icon. Assignment of a reply (advice) under list is performed by carrying out moving the display part which clicks the part where it was displayed or is in the selection condition etc.

[0078] At step 360, it judges whether advice was newly specified. When a user clicks which reply (advice) currently displayed as a list, a judgment serves as YES, shifts to step 361, and after it changes the display of the newly specified reply into what shows a selection condition, it shifts to step 362. When that is not right, a judgment serves as NO, and it shifts to the step 362, without performing processing of other steps.

[0079] At step 362, if it clicked [ whether it clicked on the icon (ON), and ] on the icon, the class of the icon will be judged. When the user is clicking on neither of the icons, that is judged and the above-mentioned step 359 is made to maintain return and a screen display. When a user clicks on the icon "returning", that is judged and it returns to the above-mentioned step 304. When a user clicks on "deletion" icon, after judging that, shifting to step 363 and deleting current and the reply (advice) specified from RAM113 or a hard disk, an advice list screen is again created with deletion of return and one reply to the above-mentioned step 358. When a user clicks on "opening" icon, that is judged and it shifts to step 364, and after making the reply specified decide as a candidate for a display now, it shifts to step 365 shown in drawing 9.

[0080] At the step 365, it judges whether it is a training person's (teacher) thing which the

address of the transmitting origin of the reply (advice) given applicable to a display made a contract of. When the address of the transmitting origin is in agreement with what is registered by the terminal 102 side, a judgment serves as NO and shifts to step 372 shown in drawing 10. When that is not right, a judgment serves as YES and shifts to step 366.

[0081] At step 366, it inserts all over the non-contracted teacher advice display screen which read the reply for a display (advice) from RAM113 or a hard disk, for example, read the contents (data inputted on the screen shown in drawing 36, such as advice and conditions) from the hard disk, and the screen after the insertion (refer to drawing 22) is displayed on a display 114. At continuing step 367, it judges whether it clicked on the icon arranged on the screen (ON). When the user is clicking on neither the "contract" icon nor the icon "returning", a judgment serves as NO and returns to the above-mentioned step 366. When that is not right, a judgment serves as YES and shifts to step 368. Thereby, the contents of the reply (advice) specified by a user are displayed until it clicks on the "contract" icon on the non-contracted teacher advice display screen, or the icon "returning."

[0082] The class of icon on which it clicked is judged at step 368. When a user clicks on the icon "returning", an advice list screen as shown in step 359 which that is judged and is shown in drawing 8 at return and drawing 21 is again displayed on a display 114. When that is not right (i.e., when a user clicks on a "contract" icon), that is judged and it shifts to step 369.

[0083] At step 369, a contract comprehension signal is transmitted to a server 104, and it registers into a hard disk as a thing of the training person who made a contract of the address of the current and transmitting origin of the reply (advice) currently displayed. The signal notifies a server 104 of the intention a contract of is made with the training person with the address who has the address of the current and transmitting origin of the reply (advice) currently displayed. The server 104 which received it performs accounting to the advice which the training person sent, and transmits to a terminal 102 by making the accounting result into accounting information while a user (student) creates the mail (contract comprehension mail) which tells that to the training person who has notified the intention of a contract and transmits to the training person. From this, it waits to receive the accounting information at step 370 following step 369. If it is received, after shifting to step 371 and displaying the contents on a display 114, it returns to the above-mentioned step 304.

[0084] In not being a training person's (teacher) thing which the address of the transmitting origin of the reply (advice) whose user directed opening made a contract of, the judgment of the above-mentioned step 365 shifts to step 372 which serves as NO and is shown in drawing 10. At the step 372, it inserts all over the contracted teacher advice display screen which read the reply for a display (advice) from RAM113 or a hard disk, for example, read the contents from the hard disk, and the screen after the insertion (refer to drawing 23) is displayed on a display 114. At continuing step 373, it waits to click on the icon arranged on the screen (ON). If a user clicks on "deletion" icon or the icon "returning", it will shift to step 374 and the class of icon on which it clicked will be judged. When a user clicks on the icon "returning", an advice list screen as shown in step 359 which that is judged and is shown in drawing 8 at return and drawing 21 is again displayed on a display 114. When that is not right (i.e., when a user clicks on "deletion" icon), after judging that, shifting to step 375 and deleting a reply (advice) on display from RAM113 or a hard disk now, an advice list screen is again created with deletion of return and one reply to step 358 of drawing 8.

[0085] Thus, with the gestalt of this operation, even if a training person sends the advice to the performance data transmitted by the student who has not contracted, if a student does not contract, the remuneration over the advice is made not to be acquired. For this reason, a training person has to try hard raising one's capacity and sensibility or learning the method of still more suitable instruction, in order to contract with a student. Consequently, a training person's level improves and a student can perform more high quality study now.

[0086] At step 376 of drawing 11 to which the judgment of step 353 of drawing 8 serves as NO, and shifts, it judges whether it clicked on the "question transmitting" icon. When a user clicks on the icon, a judgment serves as YES and shifts to step 377. When that is not right, a judgment serves as NO and returns to step 305 of drawing 3.

[0087] At step 377, it judges whether the user has contracted with the training person. When a training person's address is not registered, after notifying that a question cannot be asked by a judgment serving as NO, shifting to step 378, reading a question improper warning screen as shown in drawing 24 from a hard disk, and having not contracted fixed time amount and by displaying to a display 114, it returns to the above-mentioned step 304. When that is not right, a judgment serves as YES, shifts to step 379, and after reading from a hard disk and making it display on a display 114, it shifts a question input screen as shown in drawing 25 to step 380.

[0088] As shown in drawing 25, the input box for inputting a question is arranged and the "transmitting" icon and the "termination" icon are arranged as an icon at the above-mentioned question input screen. If a user clicks on a "transmitting" icon, it will transmit to a server 104 by making into the destination the training person who made a contract of the question inputted into the input box.

[0089] At step 380, it judges whether the data input was performed. Where cursor is located in an input box, when a user operates a keyboard 118, after a judgment serves as YES and newly displays data in an input box according to the contents of actuation at step 381, it shifts to step 382. When that is not right, a judgment serves as NO, and it shifts to the step 382, without processing other steps.

[0090] At step 382, it judges whether it clicked on the icon. When a user clicks on a "transmitting" icon or a "termination" icon, a judgment serves as YES and shifts to step 383. When that is not right, a judgment serves as NO and returns to the above-mentioned step 380.

[0091] Repeat activation of the processing loop formation formed at steps 380-382 is carried out in between by that of \*\* to which the judgment of step 382 clicks YES and a user clicks on a certain icon. Thereby, a user can input data (question) now in an input box by actuation to a keyboard 118.

[0092] The class of icon on which it clicked is judged at step 383. When a user clicks on a "transmitting" icon, that is judged, it shifts to step 384, and the address of the training person (teacher) who contracted registered is made into the destination, and after transmitting the data inputted into the input box to a server 104, it returns to the above-mentioned step 304. When that is not right (i.e., when a user clicks on a "termination" icon), that is judged, it shifts to step 385, and after clearing the inputted data, it returns to the above-mentioned step 304.

[0093] When it is made to connect with a server 104, a terminal 102 performs processing which was mentioned above according to the actuation to a user's keyboard 118 or the pointing device which is not illustrated especially. Thereby, a terminal 102 provides with service by the server 104 the student of the music studio which is a user.

[0094] The flow chart with which drawing 26 - drawing 31 access a server 104 and which shows the flow of the processing which the terminal 103 which a training person uses performs, drawing 32 - drawing 40 are drawings showing the screen displayed by the display 124 during the access. Next, with reference to those drawings, actuation of a terminal 103 and the activity as a teacher of a music studio which the user does are explained to a detail. In addition, as for the flow chart shown in drawing 26 - drawing 31, CPU121 is realized because HDD125 performs the programs (OS, browser, etc.) read from the hard disk.

[0095] First, at step 2601, a connection request is transmitted to a server 104. When a server's 104 URL is specified and a student directs connection after making it connect with ISP as it is a signal containing a server's 104 URL and being mentioned above for example, CPU121 makes the connection request transmit from a modem 128.

[0096] A server 104 transmits the input screen which urges the input of ID and a password to the terminal 103 connected by the connection request (a link is established). At step 2602 following step 2601, the input screen which received is displayed on an indicating equipment 124, ID or a password is entered according to the actuation to a user's (training person) keyboard 127, and it transmits to a server 104 by using as discernment data ID into which it waited for a user to click on "O.K." icon on the input screen, and the user inputted it, and a password. It waits to shift to step 2603 after that and to receive the initiation screen shown in drawing 32 from a server 104.

[0097] If the initiation screen is received from a server 104, it will shift to step 2604 from step

2603. The received initiation screen is displayed on a display 124 at the step 2604. At continuing step 2605, it waits to click on the icon arranged on the initiation screen (ON). If a user clicks on which icon arranged on an initiation screen, it will shift to step 2606.

[0098] As shown in the above-mentioned initiation screen at drawing 32, each icon of "reception", "transmission", and "termination" is arranged. A "receiving" icon is for requiring the reception of the performance data from a student, or a question stored in the area assigned to itself in the terminal area for teachers. A "transmitting" icon is for requiring that what should be told to a music studio or the student (student) who has contracted should be transmitted in the form of e-mail. "Termination" icon is for directing discharge of the link established among servers 104. The user of a terminal 103 clicks one of them, and does the activity as a teacher of a music studio. Processing after step 2606 is performed according to the class of icon on which the user clicked.

[0099] First, at step 2606, having been clicked (ON) judges whether it is "termination" icon. When a user clicks on a "termination" icon, after a judgment serves as YES, shifts to step 2607 and makes a link (connection) with a server 104 cancel (cutting), it ends a series of processings. When that is not right (i.e., when a user clicks on icons other than "termination" icon), a judgment serves as NO and shifts to step 2608 shown in drawing 27.

[0100] At the step 2608, having been clicked judges whether it is a "receiving" icon. When it clicks on the "receiving" icon on the initiation screen which a user shows to drawing 32, a judgment serves as YES and shifts to step 2609. When that is not right, a judgment shifts to step 2649 which serves as NO and is shown in drawing 31.

[0101] At step 2609, the distribution demand signal which requires the mail delivery from the student transmitted to addressing to a user of a terminal 103 is transmitted to a server 104. If the server 104 which received the signal has the mail from a student stored in the area assigned to the user in the terminal area for teachers, he will transmit it as a reply to the signal. From this, at step 2610 following step 2609, a reply is received from a server 104 and it judges whether e-mail is included in the reply. The screen for notifying the purport which a judgment serves as NO when it is not contained while the mail answers, and it shifts to step 2611, and the mail from a student has not reached is read from a hard disk, and step 2604 of drawing 26 fixed time amount and after making it display is made to display a return and initiation screen as again shown in drawing 32 on a display 124 at a display 124. When that is not right, a judgment serves as YES and shifts to step 2612.

[0102] At step 2612, the mail from the student who received from the server 104 is stored in RAM123 or a hard disk. At continuing step 2613, a receiving screen as shown in drawing 33 using the mail memorized at step 2612 is created. If it is created, it will shift to step 2614 and the created screen will be displayed on a display 124. It shifts to step 2615 after that. In addition, as for creation of a receiving screen, CPU121 was stored in the hard disk. The receiving screen where a list does not exist is made to read to RAM123. In the screen it is carried out by inserting the data (the inside of drawing 33 — a "question", "performance data", and three kinds of "contracts") in which the class of mail specified from the identifier (it expresses by "Student A" — "Student C" in drawing 33) of the student who specified from the address of the transmitting origin under e-mail, and the contents of the mail is shown.

[0103] As shown in the receiving screen at drawing 33, the list of mails transmitted by the student is arranged and "opening" icon, "deletion" icon, and the icon "returning" are arranged as an icon. Assignment of the mail under list is performed by carrying out moving the display part which clicks the part where it was displayed or is in the selection condition etc.

[0104] At step 2615, it judges whether the mail under list was newly specified. When a user clicks the mail [ which ] currently displayed as a list, a judgment serves as YES, shifts to step 2616, and after it changes the display of the newly specified mail into what shows a selection condition, it shifts to step 2617. When that is not right, a judgment serves as NO, and it shifts to the step 2617, without performing processing of other steps.

[0105] At step 2617, it judges whether it clicked on the icon (ON). When a user clicks on which icon, a judgment serves as YES and shifts to step 2618. When that is not right, a judgment serves as NO and returns to the above-mentioned step 2615.

[0106] The class of icon on which it clicked is judged at step 2618. When a user clicks on the icon "returning", that is judged and it returns to the above-mentioned step 2604. When a user clicks on "deletion" icon, after judging that, shifting to step 2619 and deleting current and the mail specified from RAM123 or a hard disk, a receiving screen is again created with deletion of return and one mail to the above-mentioned step 2613. When a user clicks on "opening" icon, it shifts to step 2620 which that is judged and is shown in drawing 28.

[0107] The class of e-mail is judged at step 2620. When the user specifies the mail currently displayed as the "contract", that is judged and it shifts to step 2621. At the step 2621, it inserts into the display box of the notice screen of a contract which read the contents of the mail from the hard disk, and the screen after the insertion (refer to drawing 34) is displayed on a display 124. At continuing step 2622, it waits to click on the icon which has been arranged on the screen and "returning" (ON). If a user clicks on the icon, he will return to the above-mentioned step 2613, and will display a receiving screen again.

[0108] When the user specifies the mail currently displayed as "performance data" on the receiving screen, that is judged at the above-mentioned step 2620, and it shifts to step 2623. At the step 2623, it inserts into the contents display screen of e-mail which read the specified mail from RAM123 or a hard disk, and read the contents from the hard disk, and the screen after the insertion (refer to drawing 35) is displayed on a display 124. When it judges whether it is a student's (student) thing which that mail made a contract of from the address of the transmitting origin of e-mail at this time and judges with it not being mail from the student who contracted, the message which notifies that is also inserted into that screen (refer to drawing 35). This demands the input of the advice which should be told to the student who has transmitted performance data from a training person.

[0109] As shown in the contents display screen of e-mail at drawing 35, each icon of "playback", "a halt", an "advice input", and "returning" is arranged. At step 2624 following step 2623, it judges whether it clicked on which icon of them. When a user clicks on a certain icon, a judgment serves as YES and shifts to step 2625. When that is not right, a judgment serves as NO and shifts to step 2642.

[0110] At step 2625, it judges whether it clicked on "playback" icon. When a user clicks on the icon, a judgment serves as YES, and after substituting 1 of the value which shows that it is under playback for the variable STF for managing playback of performance data at step 2626, it shifts to step 2627. When that is not right, a judgment serves as NO and shifts to the step 2727.

[0111] At step 2627, it judges whether it clicked on the "halt" icon. When a user clicks on the icon, a judgment serves as YES, and after substituting 0 of the value which shows that it is not under playback to the above-mentioned variable STF at step 2628, it shifts to step 2629. When that is not right, a judgment serves as NO and shifts to the step 2629.

[0112] At step 2629, it judges whether it clicked on the "advice input" icon. When a user clicks on the icon, after a judgment serves as YES and substitutes 0 for Variable STF at step 2630, it shifts to step 2631. When that is not right, a judgment serves as NO and shifts to the step 2631.

[0113] At step 2631, it judges whether it is the thing from a student (student) which the mail currently displayed in the contents display screen of e-mail as shown in drawing 35 made a contract of. When the message which notifies that it is mail from the student who has not contracted as shown in the screen at drawing 35 is not being displayed, after a judgment reading the advice input screen to a contract student as is set to YES, and shifts to step 2632 of drawing 29, for example, shows drawing 37 from a hard disk and making it display it on a display 124, it shifts to step 2634. When that is not right, after a judgment reading a non-contracted student advice input screen as served as NO, for example, shown in drawing 36 from a hard disk and making it display it on a display 124, it shifts to the step 2634.

[0114] As shown in drawing 36 and drawing 37, the input box for inputting advice, respectively is arranged, and the "transmitting" icon and the "termination" icon are arranged as an icon at the non-contracted student advice screen and the advice input screen to a contract student. Two or more input boxes for inputting into a non-contracted student advice screen as conditions the things (for example, request to the time and the student who receive a lesson etc.) of the amount of money concerning 1 more time of a lesson or others are arranged. It is because just



remuneration is acquired [ as opposed to / in enabling it to perform a lesson more smoothly (it being made to decide) \*\*\*\* / the lesson ] to make the training person input conditions. By making a student present the condition from a training person, the effectiveness of raising a sense of responsibility over a lesson is also expectable. The data inputted into the input box of those screens will be transmitted to a server 104 by making into the destination the address of the student who has transmitted performance data, if a user (training person) clicks on a "transmitting" icon.

[0115] At step 2634, it judges whether the data input was performed. Where cursor is located in an input box, when a user operates a keyboard 127, after a judgment serves as YES and newly displays data in an input box according to the contents of actuation at step 2635, it shifts to step 2636. When that is not right, a judgment serves as NO, and it shifts to the step 2636, without processing other steps.

[0116] At step 2636, it judges whether it clicked on the icon (ON). When a user clicks on a "transmitting" icon or a "termination" icon, a judgment serves as YES and shifts to step 2637. When that is not right, a judgment serves as NO and returns to the above-mentioned step 2634.

[0117] Repeat activation of the processing loop formation formed at steps 2634-2636 is carried out until the judgment of step 2636 clicks YES and a user clicks on a certain icon. Thereby, a user can input data (advice etc.) now in an input box by actuation to a keyboard 127.

[0118] At step 2637, it judges whether it clicked on the "transmitting" icon. When a user clicks on a "transmitting" icon, it is set to YES and shifts to step 2638, a judgment makes the address of the student who has transmitted performance data the destination, and after it performs transmitting processing which transmits the data inputted into the input box to a server 104, it shifts to step 2640. When that is not right, a judgment serves as NO and shifts to step 2639.

[0119] At step 2639, it judges whether it clicked on the "termination" icon. When a user clicks on a "termination" icon, it is set to YES, a judgment shifts to step 2640, and after it clears the inputted data, it creates again return and a receiving screen (refer to drawing 33 ) to the above-mentioned step 2613. When that is not right, a judgment serves as NO and returns to the above-mentioned step 2634.

[0120] On the other hand, at step 2641 to which the judgment of step 2629 of drawing 28 serves as NO, and shifts, it judges whether it clicked on the icon "returning." When a user clicks on the icon, a judgment serves as YES, and if performance data are being reproduced, after terminating the playback, it returns to the above-mentioned step 2613. When that is not right, a judgment serves as NO and shifts to step 2642.

[0121] At step 2642, the value of Variable STF judges whether it is 1. When 1 is substituted for the variable STF, a judgment serves as YES, shifts to step 2643, and after it reproduces the performance data attached to e-mail as a file, it returns to the above-mentioned step 2624.

[0122] Playback of performance data is performed because CPU121 sends out MIDI data to the sound source of a sound system 126 one by one according to the time data added to the MIDI data which constitute it. If it clicks on "playback" icon on the contents display screen of e-mail of drawing 35 , while a user will not click on other icons, the processing loop formation formed at steps 2624, 2642, and 2643 is executed repeatedly. This reproduces performance data. In addition, termination of playback of performance data substitutes 0 for Variable STF at step 2643. If performance data are briefly reproduced by making it such, the playback will be terminated automatically.

[0123] When a user clicks on "opening" icon after specifying the mail currently displayed as the "question" on the receiving screen of drawing 33 , the class of the mail is judged at the above-mentioned step 2620, and it shifts to step 2644 of drawing 30 . At the step 2644, it inserts into the question mail display screen of the contract student who read mail specified by a user from RAM123 or a hard disk, and read the contents from the hard disk, and the screen after insertion (refer to drawing 38 ) is displayed on a display 124. It shifts to step 2645 after that. As shown in the display screen at drawing 38 , the display box where the question from a student is displayed, the "reply" icon, and the icon "returning" are arranged.

[0124] At step 2645, it waits to click on an icon (ON). A user's click of a "reply" icon or the icon "returning" judges whether it shifted to step 2646 and clicked on the "reply" icon. when a user



clicks on the icon, after a judgment reading a reply input screen as served as YES, and not come out of step 2647 but shown in 39 from a hard disk and making it display it on a display 124, it shifts to the above-mentioned step 2634, and performs processing of the steps 2634-2640 according to actuation of a user. When that is not right on the contrary, a judgment serves as NO and shifts to step 2648.

[0125] At step 2648, it judges whether it clicked on the icon "returning." When a user clicks on the icon, a judgment serves as YES and creates again the receiving screen which returns to step 2613 of drawing 27 and is shown in drawing 33. When that is not right, a judgment serves as NO and returns to the above-mentioned step 2645.

[0126] Thus, a training person displays the contents of the mail transmitted by the student, and transmits the reply to advice or a question to the student through a server 104 in the form of the reply to the mail. If a user clicks on the "transmitting" icon on the initiation screen shown in drawing 32, the judgment of step 2608 of drawing 27 will serve as NO, and will shift to step 2649 of drawing 31. A transmitting screen as shown in drawing 40 is read from a hard disk, and it expresses to a display 124 as the step 2649. After displaying the screen, it shifts to step 2650.

[0127] As shown in the above-mentioned transmitting screen at drawing 40, the input box for inputting the address made into a transmission place, a subject name, and the text, respectively, the "transmitting" icon, and the "termination" icon are arranged. After transmission of e-mail inputs data into each input box, it is performed by clicking on a "transmitting" icon.

[0128] At step 2650, it judges whether the data input was performed. Where cursor is located in which input box, when a user operates a keyboard 127, after a judgment serves as YES and newly displays data in an input box according to the contents of actuation at step 2651, it shifts to step 2652. When that is not right, a judgment serves as NO, and it shifts to the step 2652, without processing other steps.

[0129] At step 2652, it judges whether it clicked on the icon (ON). When a user clicks on a "transmitting" icon or a "termination" icon, a judgment serves as YES and shifts to step 2653. When that is not right, a judgment serves as NO and returns to the above-mentioned step 2650.

[0130] At step 2653, it judges whether it clicked on the "transmitting" icon. The transmitting processing which transmits the data which the judgment was set to YES and shifted to step 2654 when a user clicked on a "transmitting" icon, made the destination the address inputted into the input box for an address input, and were inputted into other input boxes to a server 104 performs, and after clearing all the data further inputted at step 2655, it returns to step 2604 of drawing 26. When that is not right, a judgment serves as NO and shifts to step 2656.

[0131] At step 2656, it judges whether it clicked on the "termination" icon. When a user clicks on a "termination" icon, it is set to YES, a judgment shifts to step 2655, and after it clears the inputted data, it returns to the above-mentioned step 2604. When that is not right, a judgment serves as NO and returns to the above-mentioned step 2650.

[0132] When it is made to connect with a server 104, a terminal 103 performs processing which was mentioned above according to the actuation to a user's keyboard 118 or the pointing device which is not illustrated especially. Thereby, the user of a terminal 103 can perform now a lesson (training), communication, etc. to the student of the music room which is the user of a terminal 102.

[0133] Since it corresponds to the accessed terminal system 102 or 103, drawing 41 - drawing 43 are flow charts which show the flow of the processing which a server 104 performs. Next, with reference to the flow chart shown in drawing 41 - drawing 43, actuation of a server 104 and the offer approach of service are explained to a detail. In addition, as for the flow chart shown in drawing 41 - drawing 43, CPU131 is realized because HDD134 performs the programs (Network OS etc.) read from the hard disk.

[0134] First, at step 4101, it judges whether the connection request was received. When the communications control section 136 receives it, a judgment serves as YES, shifts to step 4102, and connects by making the link of the terminal 102 which has transmitted it, or 103 establish. When that is not right, a judgment serves as NO and shifts to step 4107 mentioned later.

[0135] As described above, if it connects with the connected terminal 102 or 104, a server 104 will read the input screen which stimulates the input of ID and a password as discernment data

secured in the terminal area for teachers and which was specified in the address. It shifts to step 4119 after that.

[0143] Thus, the performance data transmitted from the terminal 102 are stored in the personal terminal area secured in the terminal area for teachers according to the address added to it. By that cause, performance data will be sent to the training person whom the user (student) of the terminal 102 desires.

[0144] At step 4119, it judges whether the advice inquiry demand (signal) was received. When it clicks on the "advice receiving" icon on the initiation screen for students as the user of a terminal 102 shows to drawing 12, since the advice inquiry demand is transmitted to a server 104 from a terminal 102, a judgment serves as YES and shifts to step 4120. Since an advice inquiry music demand is not transmitted from a terminal 102 when that is not right, a judgment serves as NO and shifts to step 4123 of drawing 43.

[0145] At step 4120, it judges whether there is any mail from a training person including advice mail. In the terminal area secured for [ which has transmitted the advice inquiry demand ] the users of a terminal 102 in the terminal area for students When the mail which stored a training person's advice, or the mail which stored the reply to a question is stored, A judgment serves as YES, shifts to step 4121, and after it transmits all mails from a training person stored in the terminal area to a terminal 102, it shifts to step 4123 of drawing 43. When that is not right (i.e., when there is no mail which should be transmitted to a terminal 102), a judgment serves as NO, and after it transmits the signal which shows that to a terminal 102, it shifts to the step 4123.

[0146] At the step 4123, it judges whether the contract comprehension signal was received. When it clicks on the "contract" icon on the non-contracted teacher advice display screen as the user of a terminal 102 shows to drawing 22, since the terminal 102 transmits a contract comprehension signal to a server 104, a judgment serves as YES and it shifts to step 4124. When that is not right, a judgment serves as NO and shifts to step 4128.

[0147] Accounting is performed at step 4124. While paying based on the conditions which the student to whom the training person notified, for example by the contract comprehension signal made the signal transmit in the processing was shown, computing the amount billed, and pulling down the amount billed from the account specified by the student or requiring payment of the amount billed of a credit firm, it gives the training person transferring the account which had advice (lesson) cost specified.

[0148] At step 4125 following step 4124, the accounting information for notifying a student of the amount billed decided by the above-mentioned accounting is transmitted to the addressing to a student. At step 4126 which shifts after that, the contract comprehension mail which stored the message as shows that the contract with a student was concluded to drawing 34 of which a training person is notified is created. If the mail is created, it shifts to step 4127, and after transmitting it to a corresponding training person, it will shift to step 4128. Transmission of the contract comprehension mail is performed here at storing it in the terminal area secured for [ in which the contract was concluded ] training persons in the terminal area for teachers. The above-mentioned accounting information is stored also in the terminal area secured for students (student) in the terminal area for students (refer to drawing 2).

[0149] At step 4128, it judges whether question mail was received. After inputting a question into the input box on a question input screen as the user of a terminal 102 shows to drawing 25, When it clicks on a "transmitting" icon, the terminal 102 the question mail which is the mail which stored the question from transmitting to a server 104 the terminal area (refer to drawing 2) corresponding to the address which a judgment serves as YES, shifts to step 4129, and is made into the destination of that secured in the terminal area for teachers — after storing the mail, it shifts to step 4130. When that is not right, a judgment serves as NO and shifts to the step 4130.

[0150] At step 4130, it judges whether the distribution demand signal was received. Since the terminal 103 transmits a distribution demand signal to a server 104, a judgment serves as YES, and when it clicks on the "receiving" icon on an initiation screen as the user of a terminal 103 shows to drawing 32, after it transmits the mail stored in the terminal area secured for [ the signal was made to transmit at step 4131 ] users (teacher) in the terminal area for teachers to a

terminal 103, it shifts to step 4132. When that is not right, a judgment serves as NO and shifts to the step 4132.

[0151] At step 4132, it judges whether transmitting mail was received. After inputting the data corresponding to the input box on a transmitting screen as the user of a terminal 103 shows to drawing 40, After inputting the data (advice) corresponding to the input box on the advice input screen to a contract student as clicks on a "transmitting" icon or shows drawing 37, When it clicks on a "transmitting" icon, the terminal 103 the mail which stored the data inputted into the input box from transmitting to a server 104 A judgment serves as YES, and after it stores the mail received at step 4133 in the terminal area corresponding to the address of the destination secured in the terminal area for students, it returns to step 4101 of drawing 41. At the step 4133, it will judge whether it is that in which transmitting mail stored advice, and if it judges with storing the advice, the same accounting as the above-mentioned step 4124 is performed, it will double storing the mail which stored accounting information in terminal area, and it will be performed. On the other hand, it returns to step 4101 of the drawing 41, without a judgment serving as NO and performing processing of other steps, when that is not right.

[0152] A server 104 corresponds to the terminal 102 accessed by performing processing which was mentioned above, or 103. This relays the exchange between the training persons (teacher of a music studio) who are the student (student of a music studio) and the user of a terminal 103 who are a user of a terminal 102, and the music studio which provides the user of the terminal 102 with the place which learns a musical instrument is realized.

[0153] in addition — the gestalt of this operation — the student (user of a terminal 102) of a music studio — one teacher (user of a terminal 103) — a contract — that is, although it is impossible to choose, you may enable it to contract with two or more teachers When it enables it to contract with two or more teachers, it can contract with a teacher or you may enable it to choose the teacher who wants to receive a lesson (here, for sending performance data and receiving the advice which is evaluation to it to mainly correspond) at any time according to a musical genre from the teachers who contracted. About a contract with a teacher, it is desirable to enable it to cancel if needed.

[0154] Sending of performance data to a training person registers the training person's address, and although the registered address is realized by adding to performance data, it may be realized by the other approach. For example, a server 104 may be made to transmit to the terminal 103 which should transmit the performance data received from the terminal 102 automatically. As long as it does not adopt the form of a contract, a student is made to specify the training person who only sends performance data, and you may make it send performance data to the specified training person.

[0155] Although a teacher side performs the contract by showing conditions, not only a teacher side but a student side may enable it to show a teacher conditions. When it is made such, it is desirable to prepare the place which negotiates between a student and a teacher. A music studio (place which learns a musical instrument) may make two or more servers distribute the load concerning the server 104, although it has realized because a server 104 connects a student and a teacher. That is, it may be made to realize a music studio with two or more servers.

[0156] A program which realizes actuation of a server 104 and a terminal 102 which were mentioned above, a terminal 103, or its modification may be made to record on record media, such as CD-ROM, a floppy disk, or a magneto-optic disk, and may be distributed. Or you may make it distribute a part or all of the program using transmission media, such as a public network. When it is made such, a user can make this invention apply to the computer and the system by which two or more computers were further connected with it by the network by acquiring a program and loading to a computer (data processor). This to a record medium may be what can access the equipment which distributes a program.

[0157]

[Effect of the Invention] As mentioned above, make the student who is the student of the music studio realized using a network choose the training person who desires a lesson by this invention from the training persons who are the teachers of the music studio, as explained, the training person whom the student chose is made to send and evaluate the performance data to which

the student made it transmit, and the evaluation is returned to the student. For this reason, a student can receive the lesson by the training person considered to be suitable for himself, and can stop that a student holds the dissatisfaction over a music studio etc. by it. [ whom self chose ]

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[Translation done.]

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TECHNICAL FIELD

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[Field of the Invention] This invention relates to the technique for providing with the place of study the student who desires study of a musical instrument using a network.

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[Translation done.]

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EFFECT OF THE INVENTION

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[Effect of the Invention] As mentioned above, make the student who is the student of the music studio realized using a network choose the training person who desires a lesson by this invention from the training persons who are the teachers of the music studio, as explained, the training person whom the student chose is made to send and evaluate the performance data to which the student made it transmit, and the evaluation is returned to the student. For this reason, a student can receive the lesson by the training person considered to be suitable for himself, and can stop that a student holds the dissatisfaction over a music studio etc. by it. [ whom self chose ]

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TECHNICAL PROBLEM

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[Description of the Prior Art] There is a music studio to provide with the place of study those who want to learn a musical instrument. However, only those who can go to the time amount which it is opening can use the music studio, but its constraint by geographical and time conditions is large. There are not few people who have given up going to a music studio by the constraint. Recently from this, the music studio is opened using the Internet which is quickly developed as a global information infrastructure. By using the Internet, the person who was not able to circulate till then can also participate now in study of the musical instrument in a music studio from constraint geographical at least being avoided. A music studio system is a system which realizes a music studio using networks, such as the Internet.

[0003] Study of the musical instrument in a music studio is performed along with the curriculum defined beforehand. Conventionally, the training person (teacher) was assigned according to the course defined as a curriculum, and training to a student was made to perform. For this reason, the student was able to learn only from the training person assigned to the course which self learns.

[0004] A student asks for suitable advice, in order to achieve own study success. However, since it changes with a student's capacity, level, etc., suitable advice is not easy for performing it. As for the actual condition, there are many rates depending on a training person's capacity, affinity, etc.

[0005] Many of students who think that suitable advice was not able to be received come to have the dissatisfaction not a little. The dissatisfaction may reduce study volition or may serve as the motive to leave a music studio further. It is thought important to assign a student the training person suitable for the man from this.

[0006] It is in offering the music studio system which can choose the training person who thinks that a student suits himself. [ the technical problem's of this invention ]

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[Translation done.]

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MEANS

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[Means for Solving the Problem] The student whom the music studio system of this invention expects study of a musical instrument through a network, It is the system which realizes a music studio by connecting the training person who trains the student. And the system The 1st terminal unit which a student uses for a network, the 2nd terminal unit which a training person uses, Server \*\* which relays the exchange between the 1st terminal unit and the 2nd terminal unit is connected and built. And the 1st terminal unit A performance data transmitting means to transmit to a server the performance data in which the contents of the performance actuation which the student performed to the musical instrument are shown, An evaluation receiving means to receive evaluation of the training person to the performance data transmitted from the 2nd terminal unit through a server, The training person selection means for choosing the training person who sends performance data and receives a lesson out of the training person who uses the 2nd terminal unit is provided. The 2nd terminal unit A performance data receiving means to receive the performance data transmitted from the 1st terminal unit through a server, An evaluation transmitting means to transmit the evaluation to the performance data which the performance data receiving means received to a server is provided. A server A performance data transfer means to transmit to the 2nd terminal unit which should be transmitted according to the selection result of the training person to whom the student who made these performance data transmit performed the performance data received from the 1st terminal unit using the training person selection means of the 1st terminal unit, An evaluation transfer means to transmit the evaluation received from the 2nd terminal unit to the 1st terminal unit which the student who should send this evaluation uses is provided.

[0008] The student whom the data processor of the 1st mode of this invention expects study of a musical instrument through a network, And it is premised on being used as a server by the system which realizes a music studio by connecting the training person who trains the student. The student who uses the 1st terminal unit responds to the training person who chose from the training persons who use the 2nd terminal unit. A performance data transfer means to transmit to the 2nd terminal unit which should transmit the performance data in which the contents of the performance actuation to the musical instrument received from this 1st terminal unit are shown, An evaluation transfer means to transmit the evaluation received from the 2nd terminal unit to the 1st terminal unit which the student who should send this evaluation uses is provided.

[0009] In addition, the data processor of the 1st mode of the above distributes the performance data received from the 1st terminal unit which the student who has not chosen the training person uses to two or more 2nd terminal units, and each training person is asked for the evaluation to these performance data, respectively. By transmitting the evaluation transmitted from these two or more 2nd terminal units, respectively to this 1st terminal unit, what a student is provided with the information which should be referred to when choosing the training person who sends these performance data and receives a lesson for is desirable.

[0010] The student whom the data processor of the 2nd mode of this invention expects study of a musical instrument through a network, And it is premised on being used for a student by the system which realizes a music studio by connecting the training person who trains the student. A performance data transmitting means to transmit to a server through a network in order to



send the performance data in which the contents of the performance actuation which the student performed to the musical instrument are shown to a training person, The training person selection means for choosing an evaluation receiving means to receive from a server evaluation of the training person to the performance data which the performance data transmitting means transmitted, and the training person who sends performance data and receives a lesson out of a training person is provided.

[0011] The student whom the record medium of the 1st mode of this invention expects study of a musical instrument through a network, And it is the record medium which the equipment used as a server by the system which realizes a music studio by connecting the training person who trains the student can read. The student who uses the 1st terminal unit responds to the training person who chose from the training persons who use the 2nd terminal unit. The function transmitted to the 2nd terminal unit which should transmit the performance data in which the contents of the performance actuation to the musical instrument received from this 1st terminal unit are shown, The program for realizing the function to transmit the evaluation received from the 2nd terminal unit to the 1st terminal unit which the student who should send this evaluation uses is recorded.

[0012] The student whom the record medium of the 2nd mode of this invention expects study of a musical instrument through a network, And it is the record medium which the equipment used for a student by the system which realizes a music studio by connecting the training person who trains the student can read. The function transmitted to a server through a network in order to send the performance data in which the contents of the performance actuation which the student performed to the musical instrument are shown to a training person, The program for realizing the function for choosing the function to receive evaluation of the training person to the performance data transmitted by the function to transmit from a server, and the training person who sends performance data and receives a lesson out of a training person is recorded.

[0013] The student who is the student of the music studio realized in this invention using a network is made to choose the training person who desires a lesson from the training persons who are the teachers of the music studio, the training person whom the student chose is made to send and evaluate the performance data to which the student made it transmit, and the evaluation is returned to the student (transmitting person of performance data). Thereby, a student can receive now the lesson by the training person considered to be suitable for himself. [ whom self chose ]

[0014]

[Embodiment of the Invention] Hereafter, the gestalt of operation of this invention is explained to a detail, referring to a drawing. Drawing 1 is drawing showing the music studio structure of a system by the gestalt of this operation. As shown in drawing 1 , the system realizes a music studio using a network 101, and the terminal system 102 which the student who is the student of a music studio uses for the network 101, the terminal systems 103 which the training person who is the teacher of a music studio uses and those systems 102, and the server 104 which mediates an exchange of the data between 103 are connected, and it is constituted.

[0015] The above-mentioned network 101 expresses the Internet, a public line, a dedicated line, etc. collectively. For example, the terminal systems 102 and 103 are connected with the Internet through a public line and ISP (Internet Service Provider) which is performing the connection service with the Internet. The server 104 of another side is connected with the Internet through the dedicated line. It is because the geographical constraint in a training person (teacher) is avoided, and a training person (teacher) is not concerned with a location but training to a student can be performed to connect the terminal system 103 to the server 104 through the Internet. In addition, you may make it connect using a different network between them, as it said that the Internet was used between the terminal system 102 and a server 104, and LAN was used between the terminal system 103 and a server 104.

[0016] The above-mentioned terminal system (it is henceforth written as a terminal) 102 is for the user (student who is the student of a music studio) to learn a musical instrument. As shown in drawing 1 , with CPU111 which controls the terminal 102 whole For example, ROM112 which memorized the program in connection with I/O of data, The display 114 whose CPU111 is

RAM113 and CRT which are used for work pieces, or LCD, It has the hard disk drive unit (HDD) 115 which has a hard disk, the sound system 116 which carries out sound emission of the musical sound according to directions of CPU111, a keyboard 117, a keyboard 118, and the modem 119 that transmit and receive data through a public line, and is constituted.

[0017] The terminal 102 of such a configuration can be realized by adding a network function etc. to the electrophone equipped with the keyboard 117, or connecting a keyboard (electrophone) 117 etc. to a personal computer (it being henceforth written as PC). That is, it can be made to realize by connecting one equipment or two or more equipments. You may make it provide the person who became the student of a music studio with equipments, such as the keyboard 117 which should connect with the electrophone to which the network function was added, or PC, in forms, such as sale or lease. A sound system 116 reproduces the music data downloaded from the server 104, or consists of loudspeakers which change into voice the sound source which is for carrying out sound emission of the musical sound according to the actuation to a keyboard 117, for example, generates the data point of musical sound, the A/D converter which changes into the audio signal of an analog the data point outputted from the sound source, the amplifier which performs magnification of the audio signal, and the audio signal which the amplifier amplified.

[0018] The above-mentioned terminal system (it is henceforth written as a terminal) 103 is for the user (training person who is the teacher of a music studio) to train the musical instrument to a student. As shown in drawing 1, with CPU121 which controls the terminal 103 whole For example, ROM122 which memorized the program in connection with I/O of data, The display 124 whose CPU121 is RAM123 and CRT which are used for work pieces, or LCD, It has the hard disk drive unit (HDD) 125 which has a hard disk, the sound system 126 which carries out sound emission of the musical sound according to directions of CPU121, a keyboard 127, and the modem 128 which transmit and receive data through a public line, and is constituted. It can be made to realize by connecting one equipment or two or more equipments like the above-mentioned terminal 102. In addition, the terminal 103 of such a configuration can be realized by carrying a modem 128 and a sound system 126 in PC, and connecting a keyboard 127 and a display 124 to it. The sound system 126 is for mainly reproducing the performance data transmitted by the student, and its configuration is fundamentally [ as the above-mentioned sound system 116 ] the same.

[0019] Since the above-mentioned server 104 realizes a music studio, he installs [ a contractor ]. As shown in drawing 1, with CPU131 which controls the whole, ROM132 and CPU131 which memorized the program in connection with I/O of data are equipped with RAM133 used for work pieces, the hard disk drive unit (HDD) 134 which has a hard disk, the accounting section 135 which performs accounting to a student according to directions of CPU121, and the communications control section 136 which transmit and receive data through a dedicated line, and they are constituted.

[0020] The program and the various data (Network Operating System (OS) etc.) which CPU131 performs are stored in the hard disk carried in HDD134. As data for offering the service as a music studio, the thing as shown in drawing 2 is stored. As the data, especially, an important thing is extracted, it expresses notionally and a folder or a directory corresponds to the drawing 2 in fact [ the area in drawing 2 ].

[0021] The data of the music which a student should make a model are stored in the music data area shown in drawing 2. The music data is gathered in the form of SMF (Standard MIDI File). The data transmitted or transmitted to the terminal 103 are stored in the terminal area for teachers every terminal (training person who is a teacher) 103. The data is a question from a student, performance data showing the contents of the performance actuation to a keyboard 117, etc., and they are transmitted in the form of e-mail.

[0022] The data transmitted or transmitted to the terminal 102 are stored in the terminal area for students every terminal (student who is a student) 102. The data is the advice from for example, a training person, a reply (reply to a question), accounting information, etc., and they are transmitted in the form of e-mail. In addition to it, the data (for example, HTML data) of screens including various kinds, such as an object for students and an initiation screen for

teachers, a music list screen, and an accounting information screen, are stored in the hard disk. [0023] By the way, although the explanation with an especially detailed application of a student is omitted, individual humanity news, such as a need matter, for example, an identifier and the address, a mail address, and a card number of a credit card, is entered, for example in a predetermined form, and it carries out by submitting it to a music studio (contractor who is opening it). A music studio side notifies the person who made it such and applied of ID and the password for identifying that he is a student, and secures the area for the men in the terminal area for students to him (refer to drawing 2 ). Thereby, when the service as a student accesses a server 104, it presents the ID and password and receives them. Record media, such as CD-ROM which recorded software required for those who use PC as a terminal 102 when performing study in a music studio, are distributed, and it is made to install on a hard disk. In addition, you may enable it to carry out by an application of a student accessing the server 104 instead of a document with a natural thing.

[0024] The training person of another side has adopted through a predetermined procedure, in order to avoid employing as a teacher those incapable and those who are not suitable. To the person who adopted as a teacher, ID and a password are published like a student, for the exchange with a student, the address of dedication is assigned and the area for the men is further secured in the terminal area for teachers (refer to drawing 2 ). When ID and a password access a server 104, they are shown, and they perform a role of a teacher.

[0025] Actuation is explained in the above configuration. A terminal 102 is connected with the server 104 by specifying a server's 104 URL and directing connection, after making it connect with ISP through a public line by dial up (a link is established). A server 104 reads the input screen which stimulates the input of ID and a password from a hard disk to the terminal 102 which specified the URL and has accessed it, and transmits to it.

[0026] A terminal 102 displays on a display 114 the input screen which received from the server 104. Although not illustrated especially in the input screen, ID, two input boxes for the input of a password, "O.K." icon, "cancellation" icon, etc. are arranged, for example. If a student clicks on "O.K." icon after operating a keyboard 118 and entering ID and a password into those input boxes, respectively, ID and the password which were entered will transmit to a server 104 as an access person's discernment data. In addition, the click of an icon is performed by operating the pointing device (for example, mouse) which operates the keys (a cursor key, enter key, etc.) prepared in the keyboard 118, or is not illustrated especially. This is the same also in a terminal 103.

[0027] A server 104 attests by checking whether combination of ID which received from the terminal 102, and a password is saved at the hard disk (registration). If an access person checks that he is a student according to the authentication, the initiation screen shown in drawing 12 from a hard disk will be transmitted to a terminal 102. This provides the user of a terminal 102 with the service as a student of a music studio henceforth.

[0028] End of other end 103 as well as the above-mentioned terminal 102 is connected with a server 104. What the user of the terminal 103 linked to a server 104 enters on an input screen is ID and the password which are registered as a teacher's thing. For this reason, the server 104 which received them as discernment data transmits the initiation screen shown in drawing 32 from a hard disk to a terminal 103. Thereby, the business as a teacher of a music studio is made to perform to the user of a terminal 103 henceforth.

[0029] Next, with reference to drawing 3 - drawing 11 , drawing 26 - drawing 31 and the various flow charts shown in drawing 41 - drawing 43 , drawing 12 - drawing 25 , and the various explanatory views shown in drawing 32 - drawing 40 , the contents of actuation of the terminals 102 and 103 which realize a music studio, and a server 104, and the service offered in the music studio are explained to a detail.

[0030] The flow chart with which drawing 3 - drawing 11 access a server 104 and which shows the flow of the processing which the terminal 102 which a student uses performs, drawing 12 - drawing 25 are drawings showing the screen displayed by the display 114 during the access. With reference to introduction and those drawings, actuation of a terminal 102 and the service with which the student who is the user is provided by it are explained to a detail. In addition, as for

the flow chart shown in drawing 3 – drawing 11 , CPU111 is realized because HDD115 performs the programs (OS, browser, etc.) read from the hard disk.

[0031] First, at step 301, a connection request is transmitted to a server 104. When a server's 104 URL is specified and a student directs connection after making it connect with ISP as it is a signal containing a server's 104 URL and being mentioned above for example, CPU111 makes the connection request transmit from a modem 119.

[0032] A server 104 transmits the input screen which urges the input of ID and a password to the terminal 102 connected by the connection request (a link is established). At step 302 following step 301, the input screen which received is displayed on an indicating equipment 114, ID or a password is entered according to the actuation to a student's keyboard 118, and it transmits to a server 104 by using as discernment data ID into which it waited for a user to click on "O.K." icon on the input screen, and the user inputted it, and a password. It waits to shift to step 303 after that and to receive the initiation screen shown in drawing 12 from a server 104.

[0033] If the initiation screen is received from a server 104, it will shift to step 304 from step 303. The received initiation screen is displayed on a display 114 at the step 304. At continuing step 305, it waits to click on the icon arranged on the initiation screen (ON). If a user clicks on which icon arranged on an initiation screen, it will shift to step 306.

[0034] As shown in the above-mentioned initiation screen at drawing 12 , a "music list", "playback", "advice reception", "sound recording", "performance data transmission", "question transmission", and "termination" icon are arranged. A "music list" icon is for requiring offer of the service which downloads the music data which a server 104 holds (purchase), and "playback" icon is for directing playback of music data [ finishing / download ]. An "advice receiving" icon is for requiring reception of the replies (advice to the reply and performance to a question etc.) from a training person stored in the area assigned to itself in the terminal area for students. "Sound recording" icon is for directing the sound recording performed in the form to a keyboard 117 which records the contents of actuation. A "performance data transmitting" icon is for requiring transmission of the performance data obtained by the sound recording. A "question" icon is for requiring transmission of a question of a training person. "Termination" icon is for directing discharge of the link established among servers 104. The user of a terminal 102 clicks one of them, and demands desired service. Processing after step 306 is performed in order to provide a user with desired service.

[0035] First, at step 306, having been clicked (ON) judges whether it is "termination" icon. When a user clicks on a "termination" icon, after a judgment serves as YES, shifts to step 307 and makes a link (connection) with a server 104 cancel (cutting), it ends a series of processings. When that is not right (i.e., when a user clicks on icons other than "termination" icon), a judgment serves as NO and shifts to step 308 shown in drawing 4 .

[0036] At the step 308, having been clicked judges whether it is a "music list" icon. When it clicks on the "music list" icon on the initiation screen which a user shows to drawing 12 , a judgment serves as YES and shifts to step 309. When that is not right, a judgment shifts to step 319 which serves as NO and is shown in drawing 5 .

[0037] At step 309, the signal (music list request signal) which requires the downloadable list of music is transmitted to a server 104. the music list screen shown in drawing 13 from the server 104 which transmitted the signal at continuing step 310 — receiving \*\*\*\*\* — waiting . If the music list screen is received, after shifting to step 311 and displaying it on a display 114, it shifts to step 312.

[0038] As shown in the above-mentioned music list screen at drawing 13 , a list indication of the music name of the music data made into the object of download (transfer) stored in the music data area is given. "Decision" icon and the icon "returning" are arranged as an icon. After a user clicks the music name for which it asks and specifies music, he downloads the music data of the music by clicking on "decision" icon.

[0039] At step 312, it judges whether music was newly specified. When a user clicks which music name currently displayed as a list, a judgment serves as YES, shifts to step 313, and after it changes the display of the newly specified music name into what shows a selection condition, it shifts to step 314. When that is not right, a judgment serves as NO, and it shifts to the step 314,

without performing processing of other steps.

[0040] At step 314, it judges whether it clicked on the icon (ON). When a user clicks on "decision" icon or the icon "returning", a judgment serves as YES and shifts to step 315. When that is not right, a judgment serves as NO and returns to the above-mentioned step 312.

[0041] The class of icon on which the user clicked is judged at step 315. When a user clicks on "decision" icon, that is judged, it shifts to step 316, and the assignment music demand signal which requires download of the music data of a music name which are in current and a selection condition is transmitted to a server 104. It waits to shift to step 317 after that and to receive the music data demanded from the server 104. On the other hand, when a user clicks on the icon "returning", that is judged and it returns to the above-mentioned step 304.

[0042] If music data are received from a server 104, it will shift to step 318 from step 317. The received music data are stored in the storing location (for example, folder) beforehand secured to the hard disk at the step 318. It returns to the above-mentioned step 312 after that.

[0043] Repeat activation of the processing loop formation formed at the above-mentioned steps 312-318 is carried out until having been clicked at step 315 judges with it being the icon "returning." While the music list screen shown in drawing 13 is displayed on the indicating equipment 114 by that cause, a user can download assignment of desired music, and the specified data of music at any time.

[0044] At step 319 of drawing 5 to which the judgment of the above-mentioned step 308 serves as NO, and shifts, having been clicked judges whether it is "playback" icon. When it clicks on "playback" icon on the initiation screen which a user shows to drawing 12, a judgment serves as YES and shifts to step 320. When that is not right, a judgment shifts to step 331 which serves as NO and is shown in drawing 6.

[0045] At step 320, a setmaster music list screen (HTML data) as shown in drawing 14 based on the music data downloaded and stored from the server 104 (preservation) is created. The created setmaster music list screen is displayed on a display 114 at continuing step 321. It shifts to step 322 after that. In addition, creation of a setmaster music list screen is performed by inserting the music name of the music data which CPU111 made read a setmaster music list screen without the music list saved beforehand at the hard disk to RAM113, and downloaded from the server 104 in the screen.

[0046] As shown in the setmaster music list screen created by making it such at drawing 14, a list indication of the music name of the refreshable music data downloaded from the server 104 is given. As an icon, the "start" icon, the "stop" icon, and the icon "returning" are arranged. After a user clicks the music name for which it asks and specifies music, he directs playback of music data by clicking on a "start" icon. Termination of the playback is directed by clicking on a "stop" icon.

[0047] At step 322, it judges whether music was newly specified. When a user clicks which music name currently displayed as a list, a judgment serves as YES, shifts to step 323, and after it changes the display of the newly specified music name into what shows a selection condition, it shifts to step 324. When that is not right, a judgment serves as NO, and it shifts to the step 324, without performing processing of other steps.

[0048] At step 324, it judges whether it clicked on the icon (ON). When a user clicks on a "start" icon, a "stop" icon, or the icon "returning", a judgment serves as YES and shifts to step 325. When that is not right, a judgment serves as NO and returns to the above-mentioned step 322.

[0049] The class of icon on which the user clicked is judged at step 325. When a user clicks on a "start" icon, a judgment serves as YES and shifts to step 326. When that is not right (i.e., when a user clicks on icons other than a "start" icon), a judgment serves as NO and shifts to step 328.

[0050] At step 326, the music data of a music name which are in current and a selection condition are reproduced. At continuing step 327, it judges whether the playback was completed. When the playback is not completed, a judgment serves as NO and returns to the above-mentioned step 325. When that is not right, a judgment serves as YES and returns to the above-mentioned step 322. In addition, playback of music data is performed by sending out the MIDI data with which it was added to the sound source of a sound system 116 according to the time

data added to the MIDI data with which CPU111 constitutes it.

[0051] At step 328 to which the judgment of the above-mentioned step 325 serves as NO, and shifts, it judges whether it clicked on the "stop" icon. When a user clicks on a "stop" icon, after a judgment serves as YES, shifts to step 329 and stops playback of music data (termination), it returns to the above-mentioned step 322. When that is not right, a judgment serves as NO and shifts to step 330.

[0052] At step 330, it judges whether it clicked on the icon "returning." When a user clicks on the icon "returning", a judgment serves as YES, and if there are music data under playback, after stopping the playback (termination), it returns to the above-mentioned step 304. When that is not right, a judgment serves as NO and returns to the above-mentioned step 325.

[0053] After specifying music and clicking on a "start" icon Namely, after the judgment of step 325 serves as YES Playback of the specified music data is completed at the step 325, or (does the judgment of step 327 serve as YES?) Click on a "stop" icon, and stop playback (termination), or (does the judgment of step 328 serve as YES?) Or between until it clicks on the icon "returning" and displays a front screen (initiation screen shown in drawing 12 here) (the judgment of step 330 serves as YES), It carries out by music data doubling the judgment of being under playback, and if music data are under playback even if it does not click on a "start" icon, it will judge with YES. This performs in the meantime according to the class of icon which had processing of steps 325-330 clicked.

[0054] At step 331 of drawing 6 to which the judgment of the above-mentioned step 319 serves as NO, and shifts, having been clicked judges whether it is "sound recording" icon. When it clicks on "sound recording" icon on the initiation screen which a user shows to drawing 12 , a judgment serves as YES and shifts to step 332. When that is not right, a judgment shifts to step 342 which serves as NO and is shown in drawing 7 .

[0055] At step 332, a setmaster music list screen (HTML data) as shown in drawing 15 is created like step 320 mentioned above. The created setmaster music list screen is displayed on a display 114 at continuing step 333. It shifts to step 334 after that.

[0056] At step 334, it judges whether music was newly specified. When a user clicks which music name currently displayed as a list, a judgment serves as YES, shifts to step 335, and after it changes the display of the newly specified music name into what shows a selection condition, it shifts to step 336. When that is not right, a judgment serves as NO, and it shifts to the step 336, without performing processing of other steps.

[0057] At step 336, it judges whether it clicked on the icon (ON). When a user clicks on "decision" icon or the icon "returning", a judgment serves as YES and shifts to step 337. When that is not right, a judgment serves as NO and returns to the above-mentioned step 334.

[0058] The class of icon on which the user clicked is judged at step 337. When a user clicks on "decision" icon, that is judged and it shifts to step 338. When that is not right (i.e., when a user clicks on the icon "returning"), that is judged and it returns to the above-mentioned step 304.

[0059] The score which expressed the musical sound (key which should be carried out key pushing) which should be made to pronounce by the note is created based on the music data of a music name which are in the selection condition, and a display 114 is made to display a sound recording score screen as shown in drawing 16 which has arranged it on it at step 338 now. At continuing step 339, it judges whether it clicked on the "sound recording start" icon (ON). When a user clicks on the icon, after a judgment serves as YES, shifts to step 340 and records in the form to a user's keyboard 117 which records the contents of performance actuation, it returns to the above-mentioned step 338. When that is not right, a judgment serves as NO and shifts to step 341.

[0060] At step 341, it judges whether it clicked on the "sound recording stop" icon. When a user clicks on the icon, a judgment serves as YES, and if it is under sound recording till then, after it saves as a file the performance data obtained by the sound recording in the storing location which was able to be appointed beforehand, it displays a setmaster music list screen as returned to the above-mentioned step 333 and shown in drawing 15 on a display 114. When that is not right, a judgment serves as NO and records by shifting to the above-mentioned step 340.

[0061] Repeat activation of the processing loop formation formed at the above-mentioned steps

338-341 is carried out until the judgment of step 341 clicks YES and a user clicks on a "sound recording stop" icon. Thereby, the following is realized. A keyboard 117 detects the performance actuation (key pushing and key-release) to it, generates the MIDI data showing the contents, and outputs them to CPU111. CPU111 makes the musical sound which should be made to pronounce according to the performance actuation to a keyboard 117 pronounce on real time by sending it out to the sound source of a sound system 116. The time amount clocked with the hard timer carried, for example in it when the user clicked on the "sound recording start" icon is supervised, it records by adding the time data which shows the timing (delta time which is the time amount from the last event) which should process it to the MIDI data received from the keyboard 117, and the MIDI data which added time data are stored in a hard disk RAM113 or if needed. Performance data are created in the form of SMF to recording by making it such. In addition, the music name is taken as the thing of the specified music data.

[0062] As mentioned above, the MIDI data which constitute music data are processed according to the time data added to it. CPU111 specifies the MIDI data which should be processed by the time amount which has passed based on the time data added to MIDI data since sound recording initiation (time amount which has passed after clicking on the "sound recording start" icon), and updates the contents of the score to display according to the specified MIDI data. According to the passage of time, he updates the contents of the score at any time, and is trying to always display the part considered that the user is performing by that cause at the time of sound recording. Renewal of the contents of the score is performed at step 338.

[0063] At step 342 of drawing 7 to which the judgment of the above-mentioned step 331 serves as NO, and shifts, having been clicked judges whether it is a "performance data transmitting" icon. When it clicks on the "performance data transmitting" icon on the initiation screen which a user shows to drawing 12, a judgment serves as YES and shifts to step 343. When that is not right, a judgment shifts to step 353 which serves as NO and is shown in drawing 8.

[0064] At step 343, it judges whether there are any performance data set as the object of transmission. After a judgment serving as NO and shifting to step 344, when performance data are not stored in the storing location, reading a performance-data-less warning screen in order to notify a purport without the performance data set as the object of transmission, as shown in drawing 17 from a hard disk and making it display on a display 114, it returns to the above-mentioned step 304. When that is not right, a judgment serves as YES, shifts to step 345, and after reading an addressing screen as shown in drawing 18 from a hard disk and making it display on a display 114, it shifts to step 346.

[0065] He is trying to make the training person (teacher of a music studio) who receives instruction in a user (student who is the student of a music studio) choose freely with the gestalt of this operation. Thereby, a student (student) can choose freely the training person who performs suitable instruction for himself and who it is easy to receive instruction or is considered to be congenial. Consequently, a student can reduce a training person and the dissatisfaction further held to a music studio. For a training person, if not chosen, since an income cannot be obtained, it reflects on the own way or teaching how comes to consider more deeply whether it is suitable. A student can be provided with the environment where a musical instrument can be learned more comfortably, also from such a thing.

[0066] As mentioned above, the address according to individual is given to the training person for the exchange with a student. From this, by the terminal 102 side, if a contract is performed with a training person, the training person's address will be registered. It enables it to send performance data, a question, etc. to the training person who contracted by that cause.

[0067] At step 346, it judges whether it is finishing [ a training person and a contract ]. When the address is not registered since a training person's address is not registered (preservation) if it does not contract, a judgment serves as NO and shifts to step 348. When that is not right, a judgment serves as YES, shifts to step 347, and after displaying the address of the training person (teacher) who contracted in the input box of an addressing screen as shown in drawing 18, it shifts to the step 348.

[0068] Thus, if it has not contracted with a training person, an addressing screen is still the condition that it is shown in drawing 18, and if it has contracted with the training person, it will

be in the condition that it is shown in drawing 19 , by displaying the address of the training person who contracted on the input box of the screen. Thereby, for a student, it requires whether self has contracted with the training person by recognition by whether the address was displayed on the input box of an addressing screen.

[0069] As shown in the above-mentioned addressing screen at drawing 18 or drawing 19 , the "transmitting" icon and the "termination" icon are arranged. At step 348, it judges whether it clicked on the "transmitting" icon (ON). When the user who is a student clicks on a "transmitting" icon, a judgment serves as YES and shifts to step 350. When that is not right, a judgment serves as NO and shifts to step 349.

[0070] At step 349, it judges whether it clicked on the "termination" icon (ON). When the user who is a student clicks on a "termination" icon (i.e., when the termination of transmission of performance data is directed), a judgment serves as YES and returns to the above-mentioned step 304. When that is not right, it judges whether the judgment was set to NO, and it returned to the above-mentioned step 348, and clicked on the "transmitting" icon again.

[0071] At one step 350, it judges whether the address is in the input box of an addressing screen. Since the address is displayed on the input box, a judgment serves as YES, and when the user has finished the contract with a training person, after it adds the address to performance data at step 351 and transmits to a server 104, it returns to the above-mentioned step 304. When that is not right (i.e., when the training person who has contracted does not exist), a judgment serves as NO, shifts to step 352, and after it adds the special address to performance data and transmits, it returns to the above-mentioned step 304.

[0072] Although especially performance data [ finishing / transmission ] are not illustrated, the storing location till then adds the data which move to a different storing location or show it that it is transmitting ending. This distinguishes whether it is finishing [ transmission ] and he is trying to transmit only for the performance data which are not transmitted. In addition, performance data may enable it to transmit what accessed record media, such as a floppy (trademark) disk, and was acquired. The terminal 102 does not need to be equipped with the keyboard 117 so that clearly from this.

[0073] The above-mentioned special address shows all training persons transmitting performance data. He asks for the advice (evaluation) to the performance data, and is trying to return the advice to a transmitting person (student with whom the contract cannot be managed) by transmitting performance data to all training persons. The training person suitable for himself is discovered to a student, and it enables it to contract from the advice to performance data to him by that cause. For a student, since a training person's capacity, sensibility or the method of instruction, etc. can be judged from advice, the training person suitable for himself can be appropriately discovered now, and a higher study result can be attained. When choosing a training person, the advice can serve as very precious information for a student, so that clearly from this.

[0074] At step 353 of drawing 8 to which the judgment of the above-mentioned step 342 serves as NO, and shifts, having been clicked judges whether it is an "advice receiving" icon. When it clicks on the "advice receiving" icon on the initiation screen which a user shows to drawing 12 , a judgment serves as YES and shifts to step 354. When that is not right, a judgment shifts to step 376 which serves as NO and is shown in drawing 11 .

[0075] At step 354, an inquiry whether a server 104 has the replies addressed to a user (advice or reply) is transmitted. At continuing step 355, it judges whether the reply to the inquiry is received and there is any reply from the reply. When the reply is not stored in the area (refer to drawing 2 ) assigned to the user in the terminal area for students, as a result of notifying that by reply, a judgment serves as NO, shifts to step 356, reads an advice-less warning screen as shown in drawing 20 from a hard disk, and fixed time amount and after making it display, it returns to a display 114 at the above-mentioned step 304. When that is not right, a judgment serves as YES and shifts to step 357.

[0076] At step 357, the data (advice data) of the e-mail format transmitted as a reply from the server 104 are stored in RAM113 or a hard disk. At continuing step 358, an advice list screen as shown in drawing 21 using the advice data memorized at step 367 is created. If it is created, it



will shift to step 359 and the created screen will be displayed on a display 114. It shifts to step 360 after that. In addition, CPU111 makes the advice list screen which was stored in the hard disk and where a list does not exist read to RAM113, and creation of an advice list screen is performed by inserting the title in advice data, and a training person's address into the screen. [0077] As shown in the advice list screen at drawing 21, the list of replies transmitted by the training person is arranged, and "opening" icon, "deletion" icon, and the icon "returning" are arranged as an icon. Assignment of a reply (advice) under list is performed by carrying out moving the display part which clicks the part where it was displayed or is in the selection condition etc.

[0078] At step 360, it judges whether advice was newly specified. When a user clicks which reply (advice) currently displayed as a list, a judgment serves as YES, shifts to step 361, and after it changes the display of the newly specified reply into what shows a selection condition, it shifts to step 362. When that is not right, a judgment serves as NO, and it shifts to the step 362, without performing processing of other steps.

[0079] At step 362, if it clicked [ whether it clicked on the icon (ON), and ] on the icon, the class of the icon will be judged. When the user is clicking on neither of the icons, that is judged and the above-mentioned step 359 is made to maintain return and a screen display. When a user clicks on the icon "returning", that is judged and it returns to the above-mentioned step 304. When a user clicks on "deletion" icon, after judging that, shifting to step 363 and deleting current and the reply (advice) specified from RAM113 or a hard disk, an advice list screen is again created with deletion of return and one reply to the above-mentioned step 358. When a user clicks on "opening" icon, that is judged and it shifts to step 364, and after making the reply specified decide as a candidate for a display now, it shifts to step 365 shown in drawing 9.

[0080] At the step 365, it judges whether it is a training person's (teacher) thing which the address of the transmitting origin of the reply (advice) given applicable to a display made a contract of. When the address of the transmitting origin is in agreement with what is registered by the terminal 102 side, a judgment serves as NO and shifts to step 372 shown in drawing 10. When that is not right, a judgment serves as YES and shifts to step 366.

[0081] At step 366, it inserts all over the non-contracted teacher advice display screen which read the reply for a display (advice) from RAM113 or a hard disk, for example, read the contents (data inputted on the screen shown in drawing 36, such as advice and conditions) from the hard disk, and the screen after the insertion (refer to drawing 22) is displayed on a display 114. At continuing step 367, it judges whether it clicked on the icon arranged on the screen (ON). When the user is clicking on neither the "contract" icon nor the icon "returning", a judgment serves as NO and returns to the above-mentioned step 366. When that is not right, a judgment serves as YES and shifts to step 368. Thereby, the contents of the reply (advice) specified by a user are displayed until it clicks on the "contract" icon on the non-contracted teacher advice display screen, or the icon "returning."

[0082] The class of icon on which it clicked is judged at step 368. When a user clicks on the icon "returning", an advice list screen as shown in step 359 which that is judged and is shown in drawing 8 at return and drawing 21 is again displayed on a display 114. When that is not right (i.e., when a user clicks on a "contract" icon), that is judged and it shifts to step 369.

[0083] At step 369, a contract comprehension signal is transmitted to a server 104, and it registers into a hard disk as a thing of the training person who made a contract of the address of the current and transmitting origin of the reply (advice) currently displayed. The signal notifies a server 104 of the intention a contract of is made with the training person with the address who has the address of the current and transmitting origin of the reply (advice) currently displayed. The server 104 which received it performs accounting to the advice which the training person sent, and transmits to a terminal 102 by making the accounting result into accounting information while a user (student) creates the mail (contract comprehension mail) which tells that to the training person who has notified the intention of a contract and transmits to the training person. From this, it waits to receive the accounting information at step 370 following step 369. If it is received, after shifting to step 371 and displaying the contents on a display 114, it returns to the above-mentioned step 304.

[0084] In not being a training person's (teacher) thing which the address of the transmitting origin of the reply (advice) whose user directed opening made a contract of, the judgment of the above-mentioned step 365 shifts to step 372 which serves as NO and is shown in drawing 10 . At the step 372, it inserts all over the contracted teacher advice display screen which read the reply for a display (advice) from RAM113 or a hard disk, for example, read the contents from the hard disk, and the screen after the insertion (refer to drawing 23 ) is displayed on a display 114. At continuing step 373, it waits to click on the icon arranged on the screen (ON). If a user clicks on "deletion" icon or the icon "returning", it will shift to step 374 and the class of icon on which it clicked will be judged. When a user clicks on the icon "returning", an advice list screen as shown in step 359 which that is judged and is shown in drawing 8 at return and drawing 21 is again displayed on a display 114. When that is not right (i.e., when a user clicks on "deletion" icon), after judging that, shifting to step 375 and deleting a reply (advice) on display from RAM113 or a hard disk now, an advice list screen is again created with deletion of return and one reply to step 358 of drawing 8 .

[0085] Thus, with the gestalt of this operation, even if a training person sends the advice to the performance data transmitted by the student who has not contracted, if a student does not contract, the remuneration over the advice is made not to be acquired. For this reason, a training person has to try hard raising one's capacity and sensibility or learning the method of still more suitable instruction, in order to contract with a student. Consequently, a training person's level improves and a student can perform more high quality study now.

[0086] At step 376 of drawing 11 to which the judgment of step 353 of drawing 8 serves as NO, and shifts, it judges whether it clicked on the "question transmitting" icon. When a user clicks on the icon, a judgment serves as YES and shifts to step 377. When that is not right, a judgment serves as NO and returns to step 305 of drawing 3 .

[0087] At step 377, it judges whether the user has contracted with the training person. When a training person's address is not registered, after notifying that a question cannot be asked by a judgment serving as NO, shifting to step 378, reading a question improper warning screen as shown in drawing 24 from a hard disk, and having not contracted fixed time amount and by displaying to a display 114, it returns to the above-mentioned step 304. When that is not right, a judgment serves as YES, shifts to step 379, and after reading from a hard disk and making it display on a display 114, it shifts a question input screen as shown in drawing 25 to step 380.

[0088] As shown in drawing 25 , the input box for inputting a question is arranged and the "transmitting" icon and the "termination" icon are arranged as an icon at the above-mentioned question input screen. If a user clicks on a "transmitting" icon, it will transmit to a server 104 by making into the destination the training person who made a contract of the question inputted into the input box.

[0089] At step 380, it judges whether the data input was performed. Where cursor is located in an input box, when a user operates a keyboard 118, after a judgment serves as YES and newly displays data in an input box according to the contents of actuation at step 381, it shifts to step 382. When that is not right, a judgment serves as NO, and it shifts to the step 382, without processing other steps.

[0090] At step 382, it judges whether it clicked on the icon. When a user clicks on a "transmitting" icon or a "termination" icon, a judgment serves as YES and shifts to step 383. When that is not right, a judgment serves as NO and returns to the above-mentioned step 380.

[0091] Repeat activation of the processing loop formation formed at steps 380-382 is carried out in between by that of \*\* to which the judgment of step 382 clicks YES and a user clicks on a certain icon. Thereby, a user can input data (question) now in an input box by actuation to a keyboard 118.

[0092] The class of icon on which it clicked is judged at step 383. When a user clicks on a "transmitting" icon, that is judged, it shifts to step 384, and the address of the training person (teacher) who contracted registered is made into the destination, and after transmitting the data inputted into the input box to a server 104, it returns to the above-mentioned step 304. When that is not right (i.e., when a user clicks on a "termination" icon), that is judged, it shifts to step 385, and after clearing the inputted data, it returns to the above-mentioned step 304.

[0093] When it is made to connect with a server 104, a terminal 102 performs processing which was mentioned above according to the actuation to a user's keyboard 118 or the pointing device which is not illustrated especially. Thereby, a terminal 102 provides with service by the server 104 the student of the music studio which is a user.

[0094] The flow chart with which drawing 26 – drawing 31 access a server 104 and which shows the flow of the processing which the terminal 103 which a training person uses performs, drawing 32 – drawing 40 are drawings showing the screen displayed by the display 124 during the access. Next, with reference to those drawings, actuation of a terminal 103 and the activity as a teacher of a music studio which the user does are explained to a detail. In addition, as for the flow chart shown in drawing 26 – drawing 31, CPU121 is realized because HDD125 performs the programs (OS, browser, etc.) read from the hard disk.

[0095] First, at step 2601, a connection request is transmitted to a server 104. When a server's 104 URL is specified and a student directs connection after making it connect with ISP as it is a signal containing a server's 104 URL and being mentioned above for example, CPU121 makes the connection request transmit from a modem 128.

[0096] A server 104 transmits the input screen which urges the input of ID and a password to the terminal 103 connected by the connection request (a link is established). At step 2602 following step 2601, the input screen which received is displayed on an indicating equipment 124, ID or a password is entered according to the actuation to a user's (training person) keyboard 127, and it transmits to a server 104 by using as discernment data ID into which it waited for a user to click on "O.K." icon on the input screen, and the user inputted it, and a password. It waits to shift to step 2603 after that and to receive the initiation screen shown in drawing 32 from a server 104.

[0097] If the initiation screen is received from a server 104, it will shift to step 2604 from step 2603. The received initiation screen is displayed on a display 124 at the step 2604. At continuing step 2605, it waits to click on the icon arranged on the initiation screen (ON). If a user clicks on which icon arranged on an initiation screen, it will shift to step 2606.

[0098] As shown in the above-mentioned initiation screen at drawing 32, each icon of "reception", "transmission", and "termination" is arranged. A "receiving" icon is for requiring the reception of the performance data from a student, or a question stored in the area assigned to itself in the terminal area for teachers. A "transmitting" icon is for requiring that what should be told to a music studio or the student (student) who has contracted should be transmitted in the form of e-mail. "Termination" icon is for directing discharge of the link established among servers 104. The user of a terminal 103 clicks one of them, and does the activity as a teacher of a music studio. Processing after step 2606 is performed according to the class of icon on which the user clicked.

[0099] First, at step 2606, having been clicked (ON) judges whether it is "termination" icon. When a user clicks on a "termination" icon, after a judgment serves as YES, shifts to step 2607 and makes a link (connection) with a server 104 cancel (cutting), it ends a series of processings. When that is not right (i.e., when a user clicks on icons other than "termination" icon), a judgment serves as NO and shifts to step 2608 shown in drawing 27.

[0100] At the step 2608, having been clicked judges whether it is a "receiving" icon. When it clicks on the "receiving" icon on the initiation screen which a user shows to drawing 32, a judgment serves as YES and shifts to step 2609. When that is not right, a judgment shifts to step 2649 which serves as NO and is shown in drawing 31.

[0101] At step 2609, the distribution demand signal which requires the mail delivery from the student transmitted to addressing to a user of a terminal 103 is transmitted to a server 104. If the server 104 which received the signal has the mail from a student stored in the area assigned to the user in the terminal area for teachers, he will transmit it as a reply to the signal. From this, at step 2610 following step 2609, a reply is received from a server 104 and it judges whether e-mail is included in the reply. The screen for notifying the purport which a judgment serves as NO when it is not contained while the mail answers, and it shifts to step 2611, and the mail from a student has not reached is read from a hard disk, and step 2604 of drawing 26 fixed time amount and after making it display is made to display a return and initiation screen as again

shown in drawing 32 on a display 124 at a display 124. When that is not right, a judgment serves as YES and shifts to step 2612.

[0102] At step 2612, the mail from the student who received from the server 104 is stored in RAM123 or a hard disk. At continuing step 2613, a receiving screen as shown in drawing 33 using the mail memorized at step 2612 is created. If it is created, it will shift to step 2614 and the created screen will be displayed on a display 124. It shifts to step 2615 after that. In addition, as for creation of a receiving screen, CPU121 was stored in the hard disk. The receiving screen where a list does not exist is made to read to RAM123. In the screen it is carried out by inserting the data (the inside of drawing 33 — a "question", "performance data", and three kinds of "contracts") in which the class of mail specified from the identifier (it expresses by "Student A" — "Student C" in drawing 33) of the student who specified from the address of the transmitting origin under e-mail, and the contents of the mail is shown.

[0103] As shown in the receiving screen at drawing 33, the list of mails transmitted by the student is arranged and "opening" icon, "deletion" icon, and the icon "returning" are arranged as an icon. Assignment of the mail under list is performed by carrying out moving the display part which clicks the part where it was displayed or is in the selection condition etc.

[0104] At step 2615, it judges whether the mail under list was newly specified. When a user clicks the mail [ which ] currently displayed as a list, a judgment serves as YES, shifts to step 2616, and after it changes the display of the newly specified mail into what shows a selection condition, it shifts to step 2617. When that is not right, a judgment serves as NO, and it shifts to the step 2617, without performing processing of other steps.

[0105] At step 2617, it judges whether it clicked on the icon (ON). When a user clicks on which icon, a judgment serves as YES and shifts to step 2618. When that is not right, a judgment serves as NO and returns to the above-mentioned step 2615.

[0106] The class of icon on which it clicked is judged at step 2618. When a user clicks on the icon "returning", that is judged and it returns to the above-mentioned step 2604. When a user clicks on "deletion" icon, after judging that, shifting to step 2619 and deleting current and the mail specified from RAM123 or a hard disk, a receiving screen is again created with deletion of return and one mail to the above-mentioned step 2613. When a user clicks on "opening" icon, it shifts to step 2620 which that is judged and is shown in drawing 28.

[0107] The class of e-mail is judged at step 2620. When the user specifies the mail currently displayed as the "contract", that is judged and it shifts to step 2621. At the step 2621, it inserts into the display box of the notice screen of a contract which read the contents of the mail from the hard disk, and the screen after the insertion (refer to drawing 34) is displayed on a display 124. At continuing step 2622, it waits to click on the icon which has been arranged on the screen and "returning" (ON). If a user clicks on the icon, he will return to the above-mentioned step 2613, and will display a receiving screen again.

[0108] When the user specifies the mail currently displayed as "performance data" on the receiving screen, that is judged at the above-mentioned step 2620, and it shifts to step 2623. At the step 2623, it inserts into the contents display screen of e-mail which read the specified mail from RAM123 or a hard disk, and read the contents from the hard disk, and the screen after the insertion (refer to drawing 35) is displayed on a display 124. When it judges whether it is a student's (student) thing which that mail made a contract of from the address of the transmitting origin of e-mail at this time and judges with it not being mail from the student who contracted, the message which notifies that is also inserted into that screen (refer to drawing 35). This demands the input of the advice which should be told to the student who has transmitted performance data from a training person.

[0109] As shown in the contents display screen of e-mail at drawing 35, each icon of "playback", "a halt", an "advice input", and "returning" is arranged. At step 2624 following step 2623, it judges whether it clicked on which icon of them. When a user clicks on a certain icon, a judgment serves as YES and shifts to step 2625. When that is not right, a judgment serves as NO and shifts to step 2642.

[0110] At step 2625, it judges whether it clicked on "playback" icon. When a user clicks on the icon, a judgment serves as YES, and after substituting 1 of the value which shows that it is

under playback for the variable STF for managing playback of performance data at step 2626, it shifts to step 2627. When that is not right, a judgment serves as NO and shifts to the step 2727. [0111] At step 2627, it judges whether it clicked on the "halt" icon. When a user clicks on the icon, a judgment serves as YES, and after substituting 0 of the value which shows that it is not under playback to the above-mentioned variable STF at step 2628, it shifts to step 2629. When that is not right, a judgment serves as NO and shifts to the step 2629.

[0112] At step 2629, it judges whether it clicked on the "advice input" icon. When a user clicks on the icon, after a judgment serves as YES and substitutes 0 for Variable STF at step 2630, it shifts to step 2631. When that is not right, a judgment serves as NO and shifts to the step 2631.

[0113] At step 2631, it judges whether it is the thing from a student (student) which the mail currently displayed in the contents display screen of e-mail as shown in drawing 35 made a contract of. When the message which notifies that it is mail from the student who has not contracted as shown in the screen at drawing 35 is not being displayed, after a judgment reading the advice input screen to a contract student as is set to YES, and shifts to step 2632 of drawing 29, for example, shows drawing 37 from a hard disk and making it display it on a display 124, it shifts to step 2634. When that is not right, after a judgment reading a non-contracted student advice input screen as served as NO, for example, shown in drawing 36 from a hard disk and making it display it on a display 124, it shifts to the step 2634.

[0114] As shown in drawing 36 and drawing 37, the input box for inputting advice, respectively is arranged, and the "transmitting" icon and the "termination" icon are arranged as an icon at the non-contracted student advice screen and the advice input screen to a contract student. Two or more input boxes for inputting into a non-contracted student advice screen as conditions the things (for example, request to the time and the student who receive a lesson etc.) of the amount of money concerning 1 more time of a lesson or others are arranged. It is because just remuneration is acquired [ as opposed to / in enabling it to perform a lesson more smoothly (it being made to decide) \*\*\*\* / the lesson ] to make the training person input conditions. By making a student present the condition from a training person, the effectiveness of raising a sense of responsibility over a lesson is also expectable. The data inputted into the input box of those screens will be transmitted to a server 104 by making into the destination the address of the student who has transmitted performance data, if a user (training person) clicks on a "transmitting" icon.

[0115] At step 2634, it judges whether the data input was performed. Where cursor is located in an input box, when a user operates a keyboard 127, after a judgment serves as YES and newly displays data in an input box according to the contents of actuation at step 2635, it shifts to step 2636. When that is not right, a judgment serves as NO, and it shifts to the step 2636, without processing other steps.

[0116] At step 2636, it judges whether it clicked on the icon (ON). When a user clicks on a "transmitting" icon or a "termination" icon, a judgment serves as YES and shifts to step 2637. When that is not right, a judgment serves as NO and returns to the above-mentioned step 2634.

[0117] Repeat activation of the processing loop formation formed at steps 2634-2636 is carried out until the judgment of step 2636 clicks YES and a user clicks on a certain icon. Thereby, a user can input data (advice etc.) now in an input box by actuation to a keyboard 127.

[0118] At step 2637, it judges whether it clicked on the "transmitting" icon. When a user clicks on a "transmitting" icon, it is set to YES and shifts to step 2638, a judgment makes the address of the student who has transmitted performance data the destination, and after it performs transmitting processing which transmits the data inputted into the input box to a server 104, it shifts to step 2640. When that is not right, a judgment serves as NO and shifts to step 2639.

[0119] At step 2639, it judges whether it clicked on the "termination" icon. When a user clicks on a "termination" icon, it is set to YES, a judgment shifts to step 2640, and after it clears the inputted data, it creates again return and a receiving screen (refer to drawing 33) to the above-mentioned step 2613. When that is not right, a judgment serves as NO and returns to the above-mentioned step 2634.

[0120] On the other hand, at step 2641 to which the judgment of step 2629 of drawing 28 serves as NO, and shifts, it judges whether it clicked on the icon "returning." When a user clicks on the

icon, a judgment serves as YES, and if performance data are being reproduced, after terminating the playback, it returns to the above-mentioned step 2613. When that is not right, a judgment serves as NO and shifts to step 2642.

[0121] At step 2642, the value of Variable STF judges whether it is 1. When 1 is substituted for the variable STF, a judgment serves as YES, shifts to step 2643, and after it reproduces the performance data attached to e-mail as a file, it returns to the above-mentioned step 2624.

[0122] Playback of performance data is performed because CPU121 sends out MIDI data to the sound source of a sound system 126 one by one according to the time data added to the MIDI data which constitute it. If it clicks on "playback" icon on the contents display screen of e-mail of drawing 35, while a user will not click on other icons, the processing loop formation formed at steps 2624, 2642, and 2643 is executed repeatedly. This reproduces performance data. In addition, termination of playback of performance data substitutes 0 for Variable STF at step 2643. If performance data are briefly reproduced by making it such, the playback will be terminated automatically.

[0123] When a user clicks on "opening" icon after specifying the mail currently displayed as the "question" on the receiving screen of drawing 33, the class of the mail is judged at the above-mentioned step 2620, and it shifts to step 2644 of drawing 30. At the step 2644, it inserts into the question mail display screen of the contract student who read mail specified by a user from RAM123 or a hard disk, and read the contents from the hard disk, and the screen after insertion (refer to drawing 38) is displayed on a display 124. It shifts to step 2645 after that. As shown in the display screen at drawing 38, the display box where the question from a student is displayed, the "reply" icon, and the icon "returning" are arranged.

[0124] At step 2645, it waits to click on an icon (ON). A user's click of a "reply" icon or the icon "returning" judges whether it shifted to step 2646 and clicked on the "reply" icon. when a user clicks on the icon, after a judgment reading a reply input screen as served as YES, and not come out of step 2647 but shown in 39 from a hard disk and making it display it on a display 124, it shifts to the above-mentioned step 2634, and performs processing of the steps 2634-2640 according to actuation of a user. When that is not right on the contrary, a judgment serves as NO and shifts to step 2648.

[0125] At step 2648, it judges whether it clicked on the icon "returning." When a user clicks on the icon, a judgment serves as YES and creates again the receiving screen which returns to step 2613 of drawing 27 and is shown in drawing 33. When that is not right, a judgment serves as NO and returns to the above-mentioned step 2645.

[0126] Thus, a training person displays the contents of the mail transmitted by the student, and transmits the reply to advice or a question to the student through a server 104 in the form of the reply to the mail. If a user clicks on the "transmitting" icon on the initiation screen shown in drawing 32, the judgment of step 2608 of drawing 27 will serve as NO, and will shift to step 2649 of drawing 31. A transmitting screen as shown in drawing 40 is read from a hard disk, and it expresses to a display 124 as the step 2649. After displaying the screen, it shifts to step 2650.

[0127] As shown in the above-mentioned transmitting screen at drawing 40, the input box for inputting the address made into a transmission place, a subject name, and the text, respectively, the "transmitting" icon, and the "termination" icon are arranged. After transmission of e-mail inputs data into each input box, it is performed by clicking on a "transmitting" icon.

[0128] At step 2650, it judges whether the data input was performed. Where cursor is located in which input box, when a user operates a keyboard 127, after a judgment serves as YES and newly displays data in an input box according to the contents of actuation at step 2651, it shifts to step 2652. When that is not right, a judgment serves as NO, and it shifts to the step 2652, without processing other steps.

[0129] At step 2652, it judges whether it clicked on the icon (ON). When a user clicks on a "transmitting" icon or a "termination" icon, a judgment serves as YES and shifts to step 2653. When that is not right, a judgment serves as NO and returns to the above-mentioned step 2650.

[0130] At step 2653, it judges whether it clicked on the "transmitting" icon. The transmitting processing which transmits the data which the judgment was set to YES and shifted to step 2654 when a user clicked on a "transmitting" icon, made the destination the address inputted

into the input box for an address input, and were inputted into other input boxes to a server 104 performs, and after clearing all the data further inputted at step 2655, it returns to step 2604 of drawing 26 . When that is not right, a judgment serves as NO and shifts to step 2656.

[0131] At step 2656, it judges whether it clicked on the "termination" icon. When a user clicks on a "termination" icon, it is set to YES, a judgment shifts to step 2655, and after it clears the inputted data, it returns to the above-mentioned step 2604. When that is not right, a judgment serves as NO and returns to the above-mentioned step 2650.

[0132] When it is made to connect with a server 104, a terminal 103 performs processing which was mentioned above according to the actuation to a user's keyboard 118 or the pointing device which is not illustrated especially. Thereby, the user of a terminal 103 can perform now a lesson (training), communication, etc. to the student of the music room which is the user of a terminal 102.

[0133] Since it corresponds to the accessed terminal system 102 or 103, drawing 41 - drawing 43 are flow charts which show the flow of the processing which a server 104 performs. Next, with reference to the flow chart shown in drawing 41 - drawing 43 , actuation of a server 104 and the offer approach of service are explained to a detail. In addition, as for the flow chart shown in drawing 41 - drawing 43 , CPU131 is realized because HDD134 performs the programs (Network OS etc.) read from the hard disk.

[0134] First, at step 4101, it judges whether the connection request was received. When the communications control section 136 receives it, a judgment serves as YES, shifts to step 4102, and connects by making the link of the terminal 102 which has transmitted it, or 103 establish. When that is not right, a judgment serves as NO and shifts to step 4107 mentioned later.

[0135] As described above, if it connects with the connected terminal 102 or 104, a server 104 will read the input screen which stimulates the input of ID and a password as discernment data from a hard disk to the terminal 102 or 104, and will transmit to it. This waits to receive the discernment data at step 4103 following step 4102. If the discernment data is received, it will shift to step 4104.

[0136] The owner of the discernment data is judged at step 4104. When the combination of ID which received as discernment data, and a password is registered as a student's thing, that is judged and it shifts to step 4105, and after reading the initiation screen for students as shown in drawing 12 from a hard disk (refer to drawing 2 ) and transmitting to a terminal 102, it shifts to step 4107. When the combination of ID and a password is registered as a teacher's thing, that is judged and it shifts to step 4106, and after reading the initiation screen for teachers as shown in drawing 32 from a hard disk (refer to drawing 2 ) and transmitting to a terminal 103, it shifts to step 4107.

[0137] At step 4107, it judges whether the music list request signal was received. Since the music list request signal is transmitted to a server 104 from a terminal 102, a judgment serves as YES, shifts to step 4108, and when it clicks on the "music list" icon on the initiation screen for students as the user of a terminal 102 shows to drawing 12 , after it reads a music list screen as shown in drawing 13 from a hard disk and transmits to a terminal 102, it shifts to step 4109. Since a music list request signal is not transmitted from a terminal 102 when that is not right, a judgment serves as NO and shifts to the step 4109.

[0138] At step 4109, it judges whether the assignment music demand signal was received. When music was specified on the music list screen as the user of a terminal 102 shows to drawing 13 and it clicks on "decision" icon, From the assignment music demand signal being transmitted to a server 104 from a terminal 102 A judgment serves as YES, shifts to step 4110, and after it reads the music data specified by the demand signal from the music data area (refer to drawing 2 ) secured to the hard disk and transmits to a terminal 102, it shifts to step 4111 shown in drawing 42 . Since an assignment music demand signal is not transmitted to a server 104 from a terminal 102 when that is not right, a judgment serves as NO and shifts to the step 4111.

[0139] At step 4111, it judges whether the performance data with which the address was added were received. When the user of a terminal 102 clicks on the "transmitting" icon on an addressing screen as shown in drawing 18 or drawing 19 , since the address is added to performance data and it transmits to a server 104, a judgment serves as YES and a terminal 102

shifts to step 4112. When that is not right, since performance data are not transmitted to a server 104, a terminal 102 shifts to step 4119 which a judgment serves as NO and is mentioned later.

[0140] At steps 4112–4118, processing for corresponding to the performance data received from the terminal 102 is performed. First, at step 4112, the class of address added as the destination of performance data is judged. The address is divided roughly into two kinds of the thing (special address) for sending the performance data transmitted from the terminal 102 to each training person (teacher), the thing to send to one person's training person (individual), and \*\* as mentioned above. From this, when the special address is added to performance data, that is judged and it shifts to step 4113. When that is not right, a judgment serves as NO and shifts to step 4116.

[0141] a message ("— it is that of a new student.) as shown in drawing 35 at step 4113 please advise. " — the mail for non-contracted students for performance data transmission made into the text is created. At continuing step 4114, the received performance data are attached to the created mail for non-contracted students. If the attachment is performed, it will shift to step 4115 and the mail for non-contracted students which attached performance data will be stored in all the terminal area (refer to drawing 2 ) for the training person (teacher) individuals secured in the terminal area for teachers. It shifts to step 4119 after that.

[0142] step 4116 of another side — for example — "— performance data have been sent newly. Please advise. The mail for contracted students for performance data transmission which made the message [ like ] the text is created. At continuing step 4117, the received performance data are attached to the created mail for contracted students. If the attachment is performed, it will shift to step 4118 and the mail for contracted students which attached performance data will be stored in the terminal area (refer to drawing 2 ) for training person (teacher) individuals which is secured in the terminal area for teachers and which was specified in the address. It shifts to step 4119 after that.

[0143] Thus, the performance data transmitted from the terminal 102 are stored in the personal terminal area secured in the terminal area for teachers according to the address added to it. By that cause, performance data will be sent to the training person whom the user (student) of the terminal 102 desires.

[0144] At step 4119, it judges whether the advice inquiry demand (signal) was received. When it clicks on the "advice receiving" icon on the initiation screen for students as the user of a terminal 102 shows to drawing 12 , since the advice inquiry demand is transmitted to a server 104 from a terminal 102, a judgment serves as YES and shifts to step 4120. Since an advice inquiry music demand is not transmitted from a terminal 102 when that is not right, a judgment serves as NO and shifts to step 4123 of drawing 43 .

[0145] At step 4120, it judges whether there is any mail from a training person including advice mail. In the terminal area secured for [ which has transmitted the advice inquiry demand ] the users of a terminal 102 in the terminal area for students When the mail which stored a training person's advice, or the mail which stored the reply to a question is stored, A judgment serves as YES, shifts to step 4121, and after it transmits all mails from a training person stored in the terminal area to a terminal 102, it shifts to step 4123 of drawing 43 . When that is not right (i.e., when there is no mail which should be transmitted to a terminal 102), a judgment serves as NO, and after it transmits the signal which shows that to a terminal 102, it shifts to the step 4123.

[0146] At the step 4123, it judges whether the contract comprehension signal was received. When it clicks on the "contract" icon on the non-contracted teacher advice display screen as the user of a terminal 102 shows to drawing 22 , since the terminal 102 transmits a contract comprehension signal to a server 104, a judgment serves as YES and it shifts to step 4124. When that is not right, a judgment serves as NO and shifts to step 4128.

[0147] Accounting is performed at step 4124. While paying based on the conditions which the student to whom the training person notified, for example by the contract comprehension signal made the signal transmit in the processing was shown, computing the amount billed, and pulling down the amount billed from the account specified by the student or requiring payment of the amount billed of a credit firm, it gives the training person transferring the account which had



advice (lesson) cost specified.

[0148] At step 4125 following step 4124, the accounting information for notifying a student of the amount billed decided by the above-mentioned accounting is transmitted to the addressing to a student. At step 4126 which shifts after that, the contract comprehension mail which stored the message as shows that the contract with a student was concluded to drawing 34 of which a training person is notified is created. If the mail is created, it shifts to step 4127, and after transmitting it to a corresponding training person, it will shift to step 4128. Transmission of the contract comprehension mail is performed here at storing it in the terminal area secured for [ in which the contract was concluded ] training persons in the terminal area for teachers. The above-mentioned accounting information is stored also in the terminal area secured for students (student) in the terminal area for students (refer to drawing 2 ).

[0149] At step 4128, it judges whether question mail was received. After inputting a question into the input box on a question input screen as the user of a terminal 102 shows to drawing 25 , When it clicks on a "transmitting" icon, the terminal 102 the question mail which is the mail which stored the question from transmitting to a server 104 the terminal area (refer to drawing 2 ) corresponding to the address which a judgment serves as YES, shifts to step 4129, and is made into the destination of that secured in the terminal area for teachers -- after storing the mail, it shifts to step 4130. When that is not right, a judgment serves as NO and shifts to the step 4130.

[0150] At step 4130, it judges whether the distribution demand signal was received. Since the terminal 103 transmits a distribution demand signal to a server 104, a judgment serves as YES, and when it clicks on the "receiving" icon on an initiation screen as the user of a terminal 103 shows to drawing 32 , after it transmits the mail stored in the terminal area secured for [ the signal was made to transmit at step 4131 ] users (teacher) in the terminal area for teachers to a terminal 103, it shifts to step 4132. When that is not right, a judgment serves as NO and shifts to the step 4132.

[0151] At step 4132, it judges whether transmitting mail was received. After inputting the data corresponding to the input box on a transmitting screen as the user of a terminal 103 shows to drawing 40 , After inputting the data (advice) corresponding to the input box on the advice input screen to a contract student as clicks on a "transmitting" icon or shows drawing 37 , When it clicks on a "transmitting" icon, the terminal 103 the mail which stored the data inputted into the input box from transmitting to a server 104 A judgment serves as YES, and after it stores the mail received at step 4133 in the terminal area corresponding to the address of the destination secured in the terminal area for students, it returns to step 4101 of drawing 41 . At the step 4133, it will judge whether it is that in which transmitting mail stored advice, and if it judges with storing the advice, the same accounting as the above-mentioned step 4124 is performed, it will double storing the mail which stored accounting information in terminal area, and it will be performed. On the other hand, it returns to step 4101 of the drawing 41 , without a judgment serving as NO and performing processing of other steps, when that is not right.

[0152] A server 104 corresponds to the terminal 102 accessed by performing processing which was mentioned above, or 103. This relays the exchange between the training persons (teacher of a music studio) who are the student (student of a music studio) and the user of a terminal 103 who are a user of a terminal 102, and the music studio which provides the user of the terminal 102 with the place which learns a musical instrument is realized.

[0153] in addition -- the gestalt of this operation -- the student (user of a terminal 102) of a music studio -- one teacher (user of a terminal 103) -- a contract -- that is, although it is impossible to choose, you may enable it to contract with two or more teachers When it enables it to contract with two or more teachers, it can contract with a teacher or you may enable it to choose the teacher who wants to receive a lesson (here, for sending performance data and receiving the advice which is evaluation to it to mainly correspond) at any time according to a musical genre from the teachers who contracted. About a contract with a teacher, it is desirable to enable it to cancel if needed.

[0154] Sending of performance data to a training person registers the training person's address, and although the registered address is realized by adding to performance data, it may be realized

by the other approach. For example, a server 104 may be made to transmit to the terminal 103 which should transmit the performance data received from the terminal 102 automatically. As long as it does not adopt the form of a contract, a student is made to specify the training person who only sends performance data, and you may make it send performance data to the specified training person.

[0155] Although a teacher side performs the contract by showing conditions, not only a teacher side but a student side may enable it to show a teacher conditions. When it is made such, it is desirable to prepare the place which negotiates between a student and a teacher. A music studio (place which learns a musical instrument) may make two or more servers distribute the load concerning the server 104, although it has realized because a server 104 connects a student and a teacher. That is, it may be made to realize a music studio with two or more servers.

[0156] A program which realizes actuation of a server 104 and a terminal 102 which were mentioned above, a terminal 103, or its modification may be made to record on record media, such as CD-ROM, a floppy disk, or a magneto-optic disk, and may be distributed. Or you may make it distribute a part or all of the program using transmission media, such as a public network. When it is made such, a user can make this invention apply to the computer and the system by which two or more computers were further connected with it by the network by acquiring a program and loading to a computer (data processor). This to a record medium may be what can access the equipment which distributes a program.

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[Translation done.]

## \* NOTICES \*

JPO and NCIPi are not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. \*\*\*\* shows the word which can not be translated.
3. In the drawings, any words are not translated.

## DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is drawing showing the music studio structure of a system by the gestalt of this operation.

[Drawing 2] It is drawing explaining the contents of the data stored in a server's hard disk.

[Drawing 3] It is the flow chart which shows the flow of the processing which the terminal system which accesses a server, and which a student uses performs.

[Drawing 4] It is the flow chart which shows the flow of the processing which the terminal system which accesses a server, and which a student uses performs (continuation 1).

[Drawing 5] It is the flow chart which shows the flow of the processing which the terminal system which accesses a server, and which a student uses performs (continuation 2).

[Drawing 6] It is the flow chart which shows the flow of the processing which the terminal system which accesses a server, and which a student uses performs (continuation 3).

[Drawing 7] It is the flow chart which shows the flow of the processing which the terminal system which accesses a server, and which a student uses performs (continuation 4).

[Drawing 8] It is the flow chart which shows the flow of the processing which the terminal system which accesses a server, and which a student uses performs (continuation 5).

[Drawing 9] It is the flow chart which shows the flow of the processing which the terminal system which accesses a server, and which a student uses performs (continuation 6).

[Drawing 10] It is the flow chart which shows the flow of the processing which the terminal system which accesses a server, and which a student uses performs (continuation 7).

[Drawing 11] It is the flow chart which shows the flow of the processing which the terminal system which accesses a server, and which a student uses performs (continuation 8).

[Drawing 12] It is drawing showing the initiation screen for students.

[Drawing 13] It is drawing showing a music list screen.

[Drawing 14] It is drawing showing a setmaster music list screen (for playback).

[Drawing 15] It is drawing showing a setmaster music list screen (for sound recording).

[Drawing 16] It is drawing showing a sound recording score screen.

[Drawing 17] It is drawing showing a performance-data-less screen.

[Drawing 18] It is drawing showing an addressing screen (at the time of no contracting).

[Drawing 19] It is drawing showing an addressing screen (at the time of contract finishing).

[Drawing 20] It is drawing showing an advice-less warning screen.

[Drawing 21] It is drawing showing an advice list screen.

[Drawing 22] It is drawing showing the non-contracted teacher advice display screen.

[Drawing 23] It is drawing showing the contracted teacher advice display screen.

[Drawing 24] It is drawing showing a question improper warning screen.

[Drawing 25] It is drawing showing a question input screen.

[Drawing 26] It is the flow chart which shows the flow of the processing which the terminal system which accesses a server, and which a training person uses performs.

[Drawing 27] It is the flow chart which shows the flow of the processing which the terminal system which accesses a server, and which a training person uses performs (continuation 1).

[Drawing 28] It is the flow chart which shows the flow of the processing which the terminal

system which accesses a server, and which a training person uses performs (continuation 2).

[Drawing 29] It is the flow chart which shows the flow of the processing which the terminal system which accesses a server, and which a training person uses performs (continuation 3).

[Drawing 30] It is the flow chart which shows the flow of the processing which the terminal system which accesses a server, and which a training person uses performs (continuation 4).

[Drawing 31] It is the flow chart which shows the flow of the processing which the terminal system which accesses a server, and which a training person uses performs (continuation 5).

[Drawing 32] It is drawing showing the initiation screen for teachers.

[Drawing 33] It is drawing showing a receiving screen.

[Drawing 34] It is drawing showing the notice screen of a contract.

[Drawing 35] It is drawing showing the notice screen of the contents of e-mail.

[Drawing 36] It is drawing showing a non-contracted student advice input screen.

[Drawing 37] It is drawing showing the advice input screen to a contract student.

[Drawing 38] It is drawing showing a contract student's question mail display screen.

[Drawing 39] It is drawing showing a reply input screen.

[Drawing 40] It is drawing showing a transmitting screen.

[Drawing 41] Since it corresponds to the accessed terminal system, it is the flow chart which shows the flow of the processing which a server performs.

[Drawing 42] Since it corresponds to the accessed terminal system, it is the flow chart which shows the flow of the processing which a server performs (continuation 1).

[Drawing 43] Since it corresponds to the accessed terminal system, it is the flow chart which shows the flow of the processing which a server performs (continuation 2).

[Description of Notations]

101 Network

102 103 Terminal system

104 Server

111, 121, 131 CPU

112, 122, 132 ROM

113, 123, 133 RAM

115, 125, 134 Hard disk drive unit

116 126 Sound system

117 Keyboard

118 127 Keyboard

119 128 Modem

135 Accounting Section

136 Communications Control Section

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[Translation done.]

## \* NOTICES \*

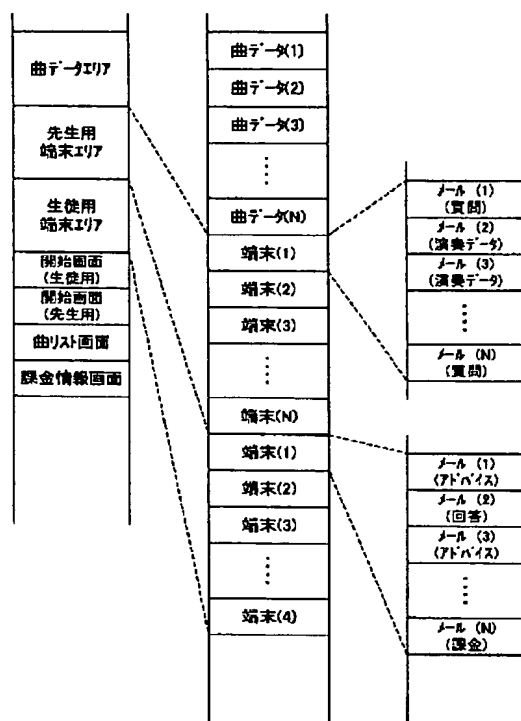
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- 2.\*\*\*\* shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

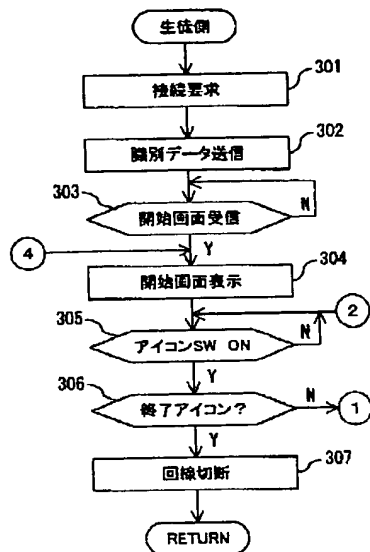
## DRAWINGS

[Drawing 2]

サーバーのハードディスクに格納されたデータの内容を説明する図

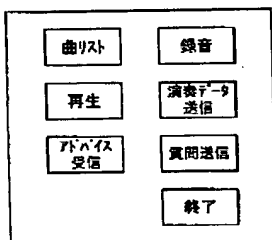
[Drawing 3]

サーバーにアクセスする、学習者が使用する  
端末システムが実行する処理の流れを示すフローチャート



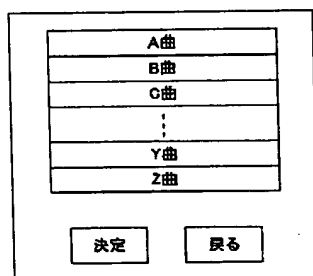
[Drawing 12]

生徒用開始画面を示す図



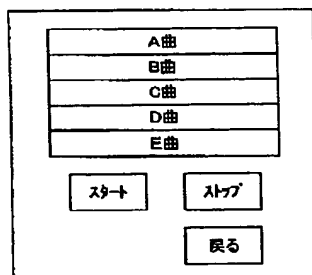
[Drawing 13]

曲リスト画面を示す図



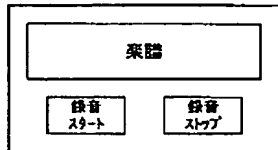
[Drawing 14]

模範曲リスト画面(再生用)を示す図



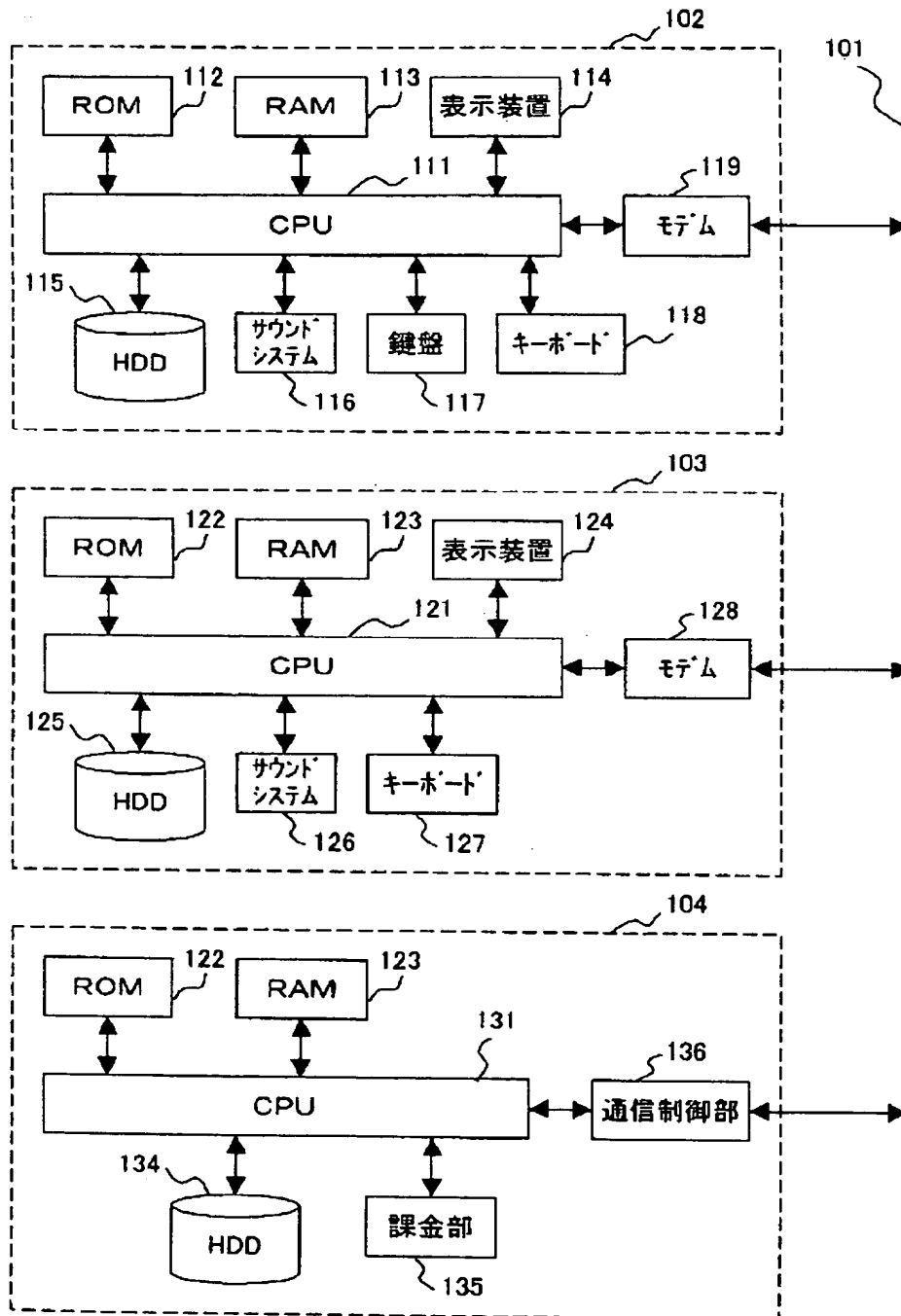
[Drawing 16]

録音楽譜画面を示す図



[Drawing 1]

本実施の形態による音楽教室システムの構成を示す図



[Drawing 15]

模範曲リスト画面(録音用)を示す図

A曲
B曲
C曲
D曲
E曲

決定 戻る

[Drawing 17]

演奏データなし警告画面を示す図

送信すべき演奏データ  
がありません

[Drawing 18]

アドレス指定画面(無契約済時)を示す図

ADDRESS

送信 中止

[Drawing 19]

アドレス指定画面(契約済時)を示す図

ADDRESS

abc@de. fgh. ij

送信 中止

[Drawing 20]

アドバイスなし警告画面を示す図

アドバイスメールは  
受信されていません

[Drawing 21]

アドバイスリスト画面を示す図

アドバイスA	アドレス
アドバイスB	アドレス
アドバイスC	アドレス
アドバイスD	アドレス

開封 削除

戻る

[Drawing 24]

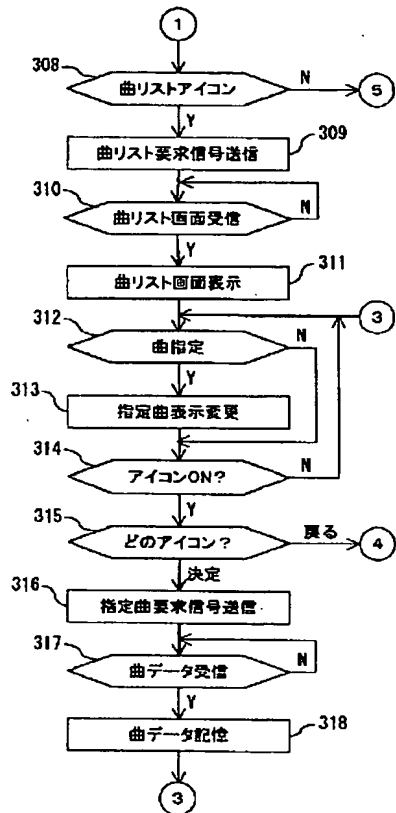
質問不可警告画面を示す図

契約していない人は  
質問できません



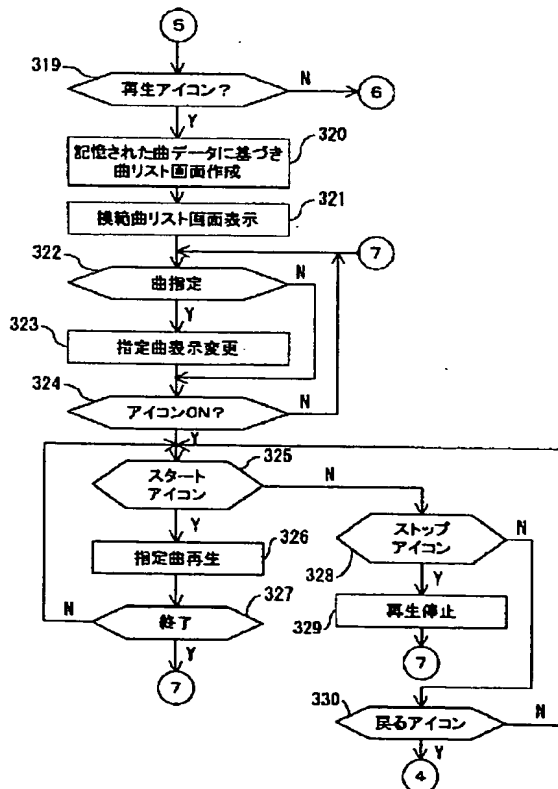
[Drawing 4]

サーバーにアクセスする、学習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き1)



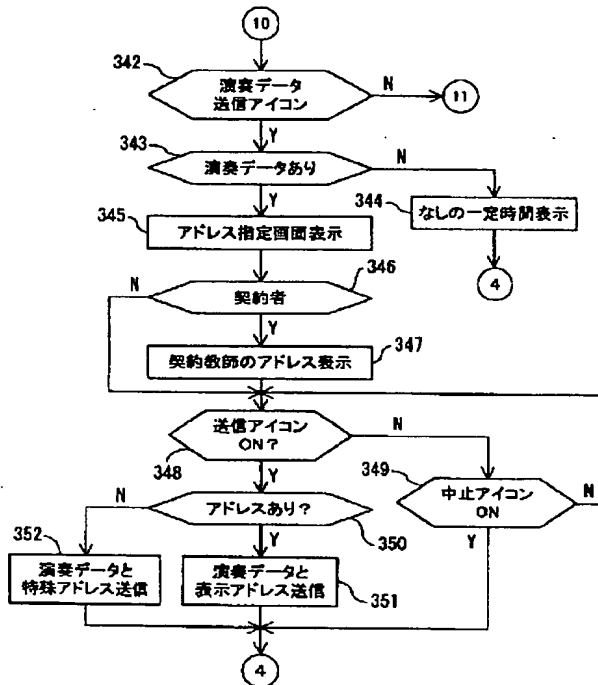
[Drawing 5]

サーバーにアクセスする、学習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き2)



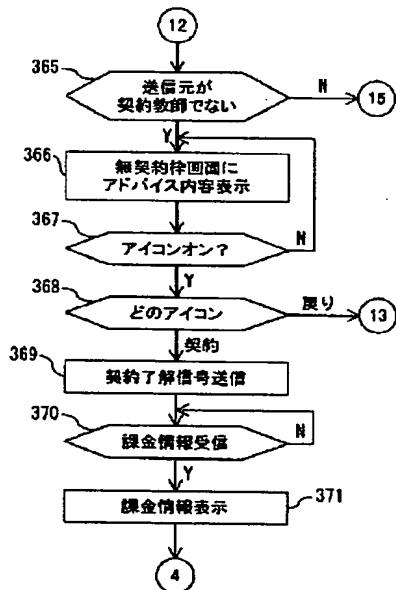
[Drawing 7]

サーバーにアクセスする、学習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き4)



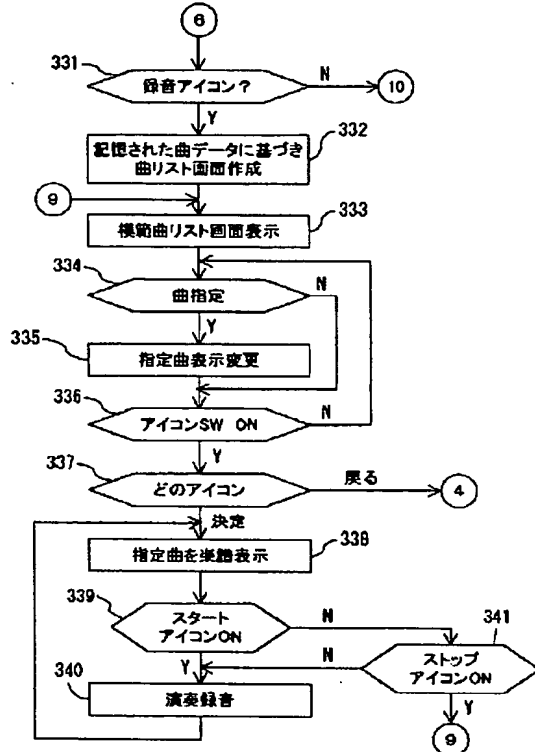
[Drawing 9]

サーバーにアクセスする、学習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き6)



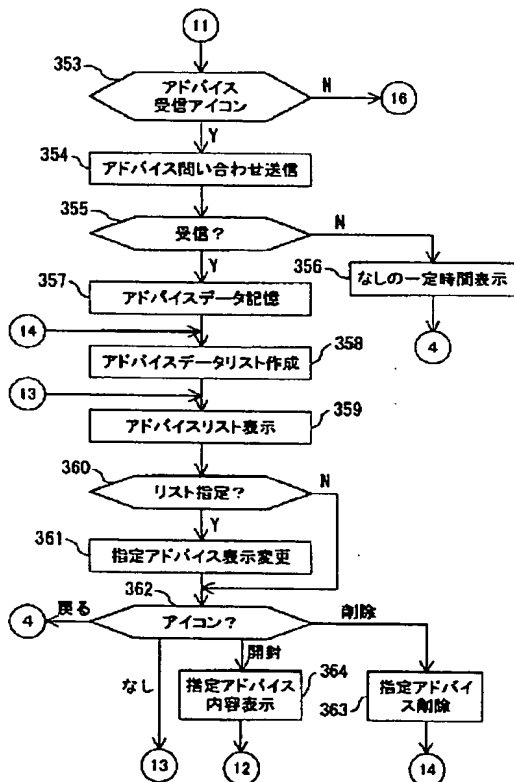
[Drawing 6]

サーバーにアクセスする、学習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き3)



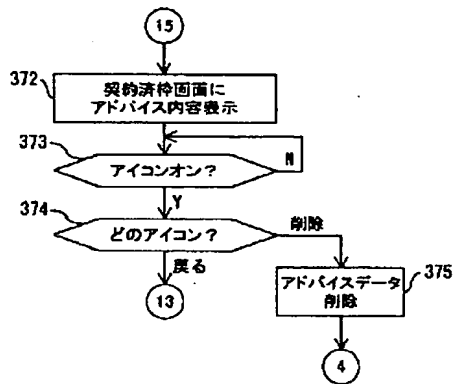
[Drawing 8]

サーバーにアクセスする、学習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き5)



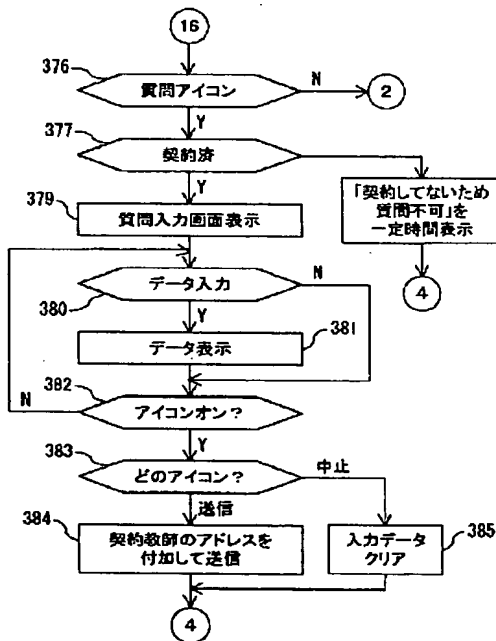
[Drawing 10]

サーバーにアクセスする、学習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き7)



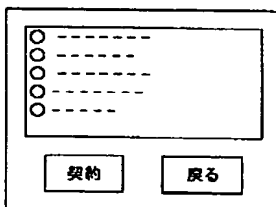
[Drawing 11]

サーバーにアクセスする、学習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き8)



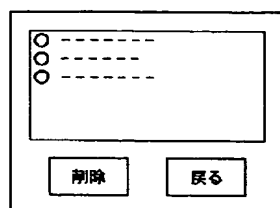
[Drawing 22]

無契約教師アドバイス表示画面を示す図

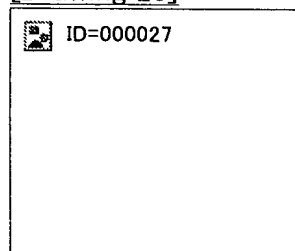


[Drawing 23]

契約済教師アドバイス表示画面を示す図

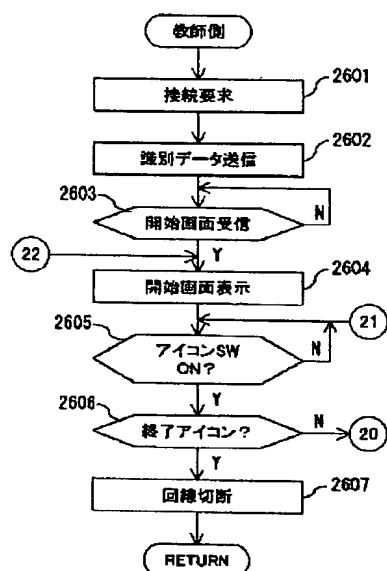


[Drawing 25]



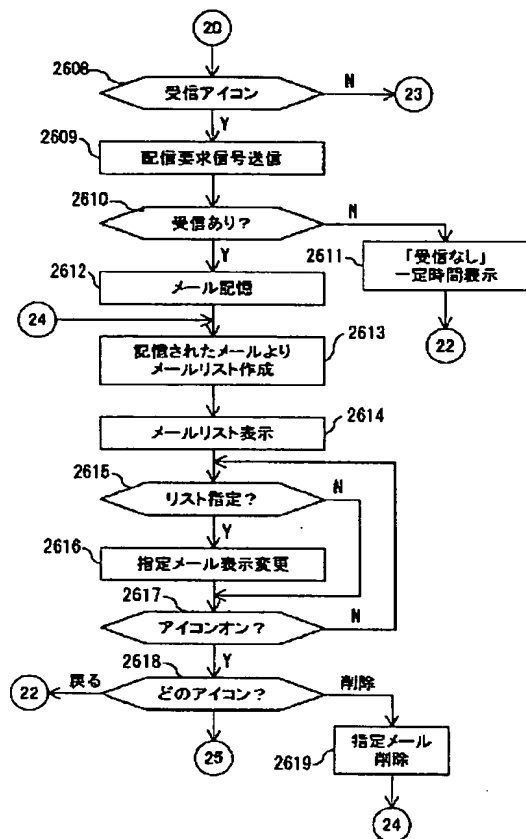
[Drawing 26]

サーバーにアクセスする、教習者が使用する  
端末システムが実行する処理の流れを示すフローチャート

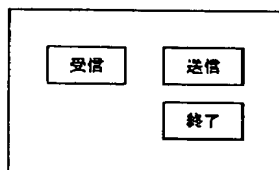


[Drawing 27]

サーバーにアクセスする、教習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き1)



[Drawing 32]  
先生用開始画面を示す図



[Drawing 33]  
受信画面を示す図



[Drawing 34]

契約通知画面を示す図

提示された条件により、  
生徒Bとの契約が成立  
しました。

戻る

[Drawing 35]

メール内容表示画面を示す図

新しい生徒のです  
アドバイスして下さい

ファイル

再生      停止

アドバイス  
入力      戻る

[Drawing 36]

無契約生徒アドバイス入力画面を示す図

アドバイス入力  
あなたの弾き方は～

条件

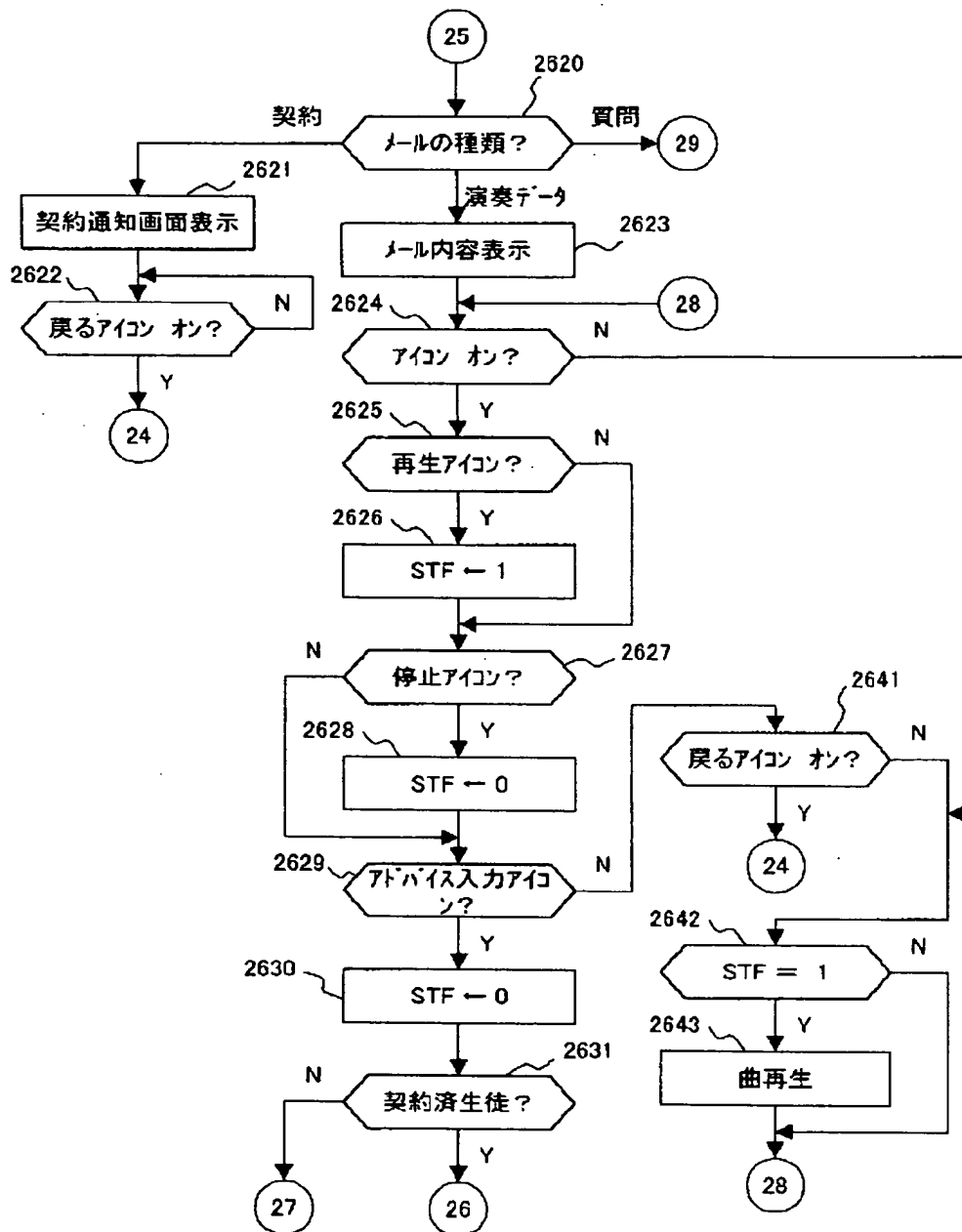
金額

その他

送信      中止

[Drawing 28]

サーバーにアクセスする、教習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き2)



[Drawing 39]  
回答入力画面を示す図

[Drawing 40]

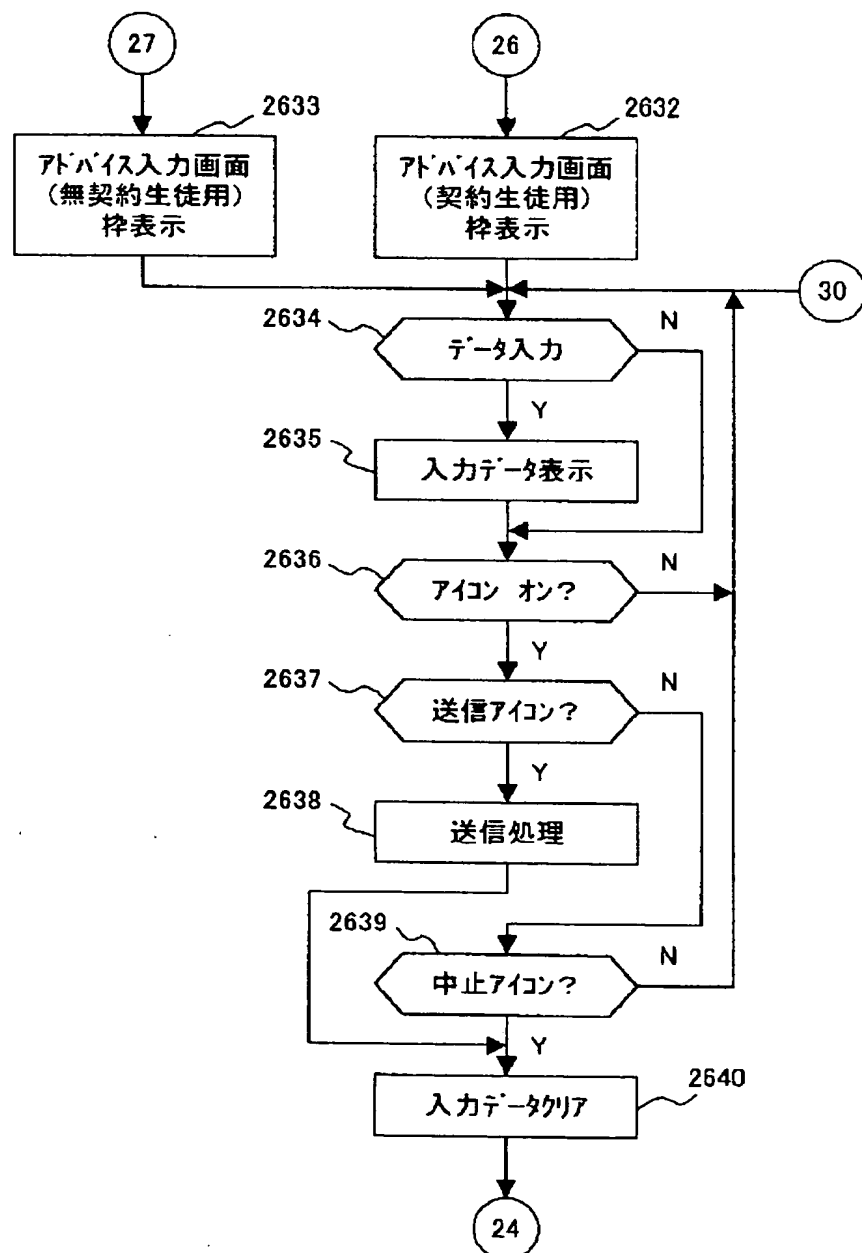


送信画面を示す図

送信	
アドレス	<input type="text"/>
件名	<input type="text"/>
<input type="text"/>	
送信	中止

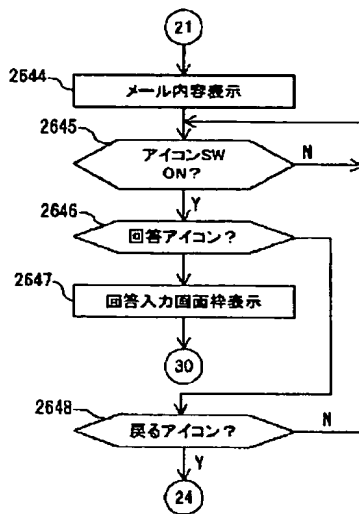
[Drawing 29]

サーバーにアクセスする、教習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き3)



[Drawing 30]

サーバーにアクセスする、教習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き4)



[Drawing 37]

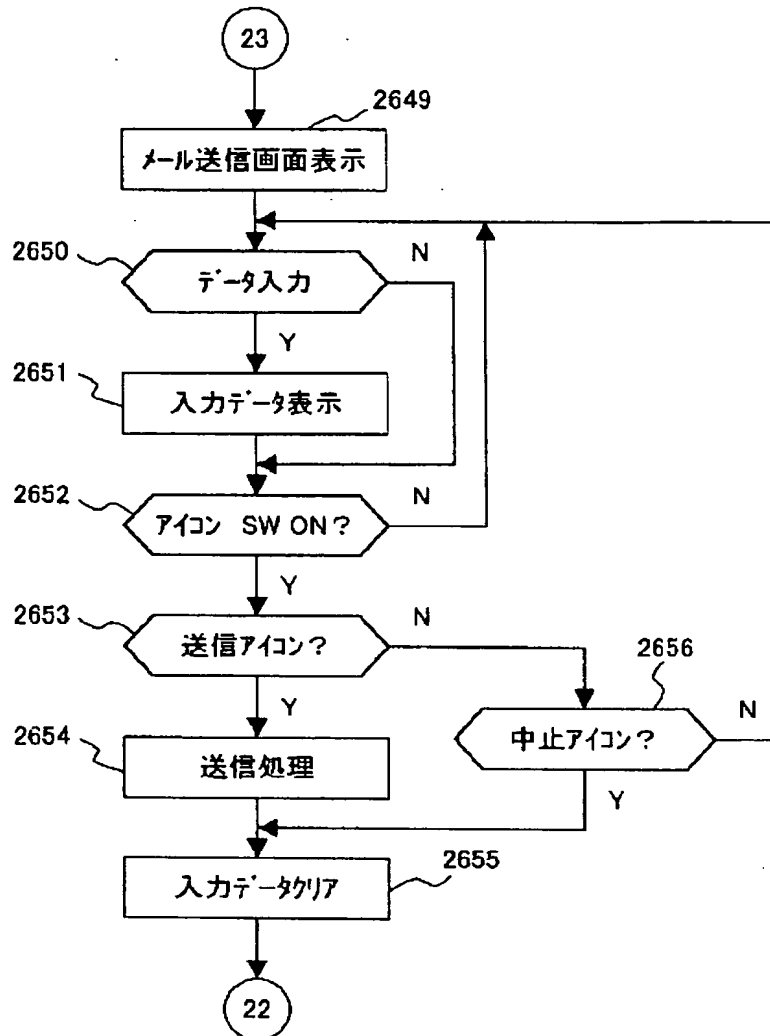
契約生徒に対するアドバイス入力画面を示す図

[Drawing 38]

契約生徒の質問メール表示画面を示す図

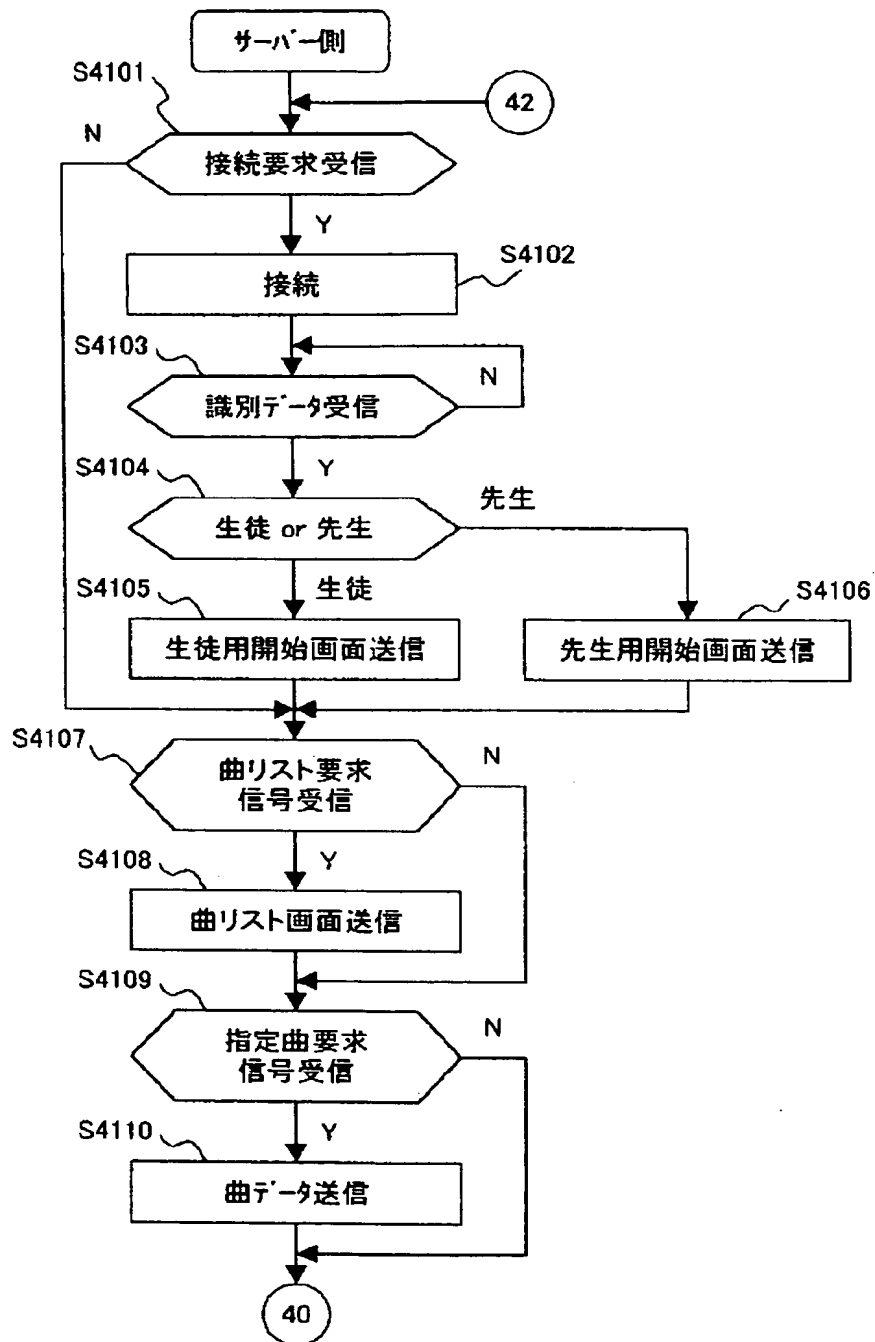
[Drawing 31]

サーバーにアクセスする、教習者が使用する端末システムが  
実行する処理の流れを示すフローチャート(続き5)



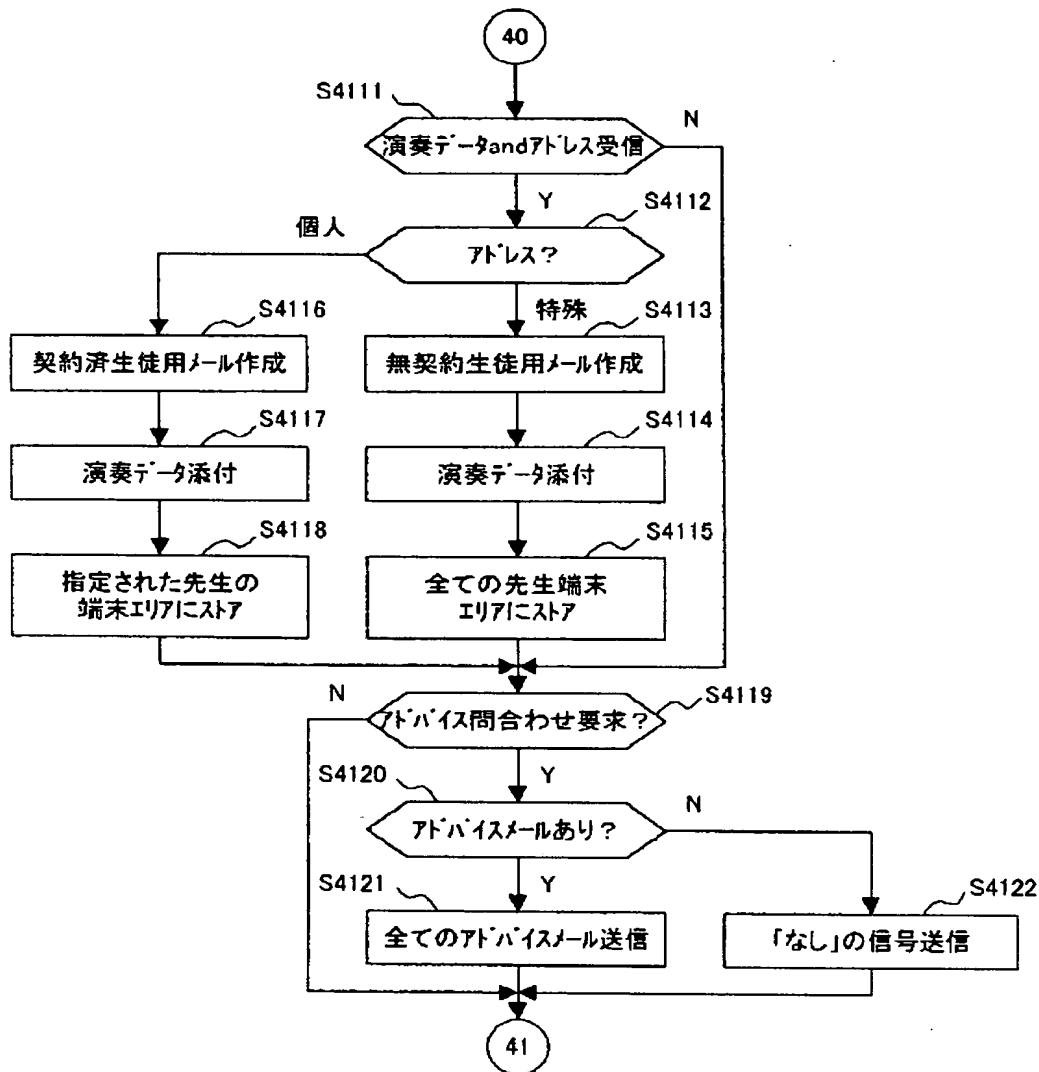
[Drawing 41]

アクセスしてきた端末システムに対応するために  
サーバーが実行する処理の流れを示すフローチャート



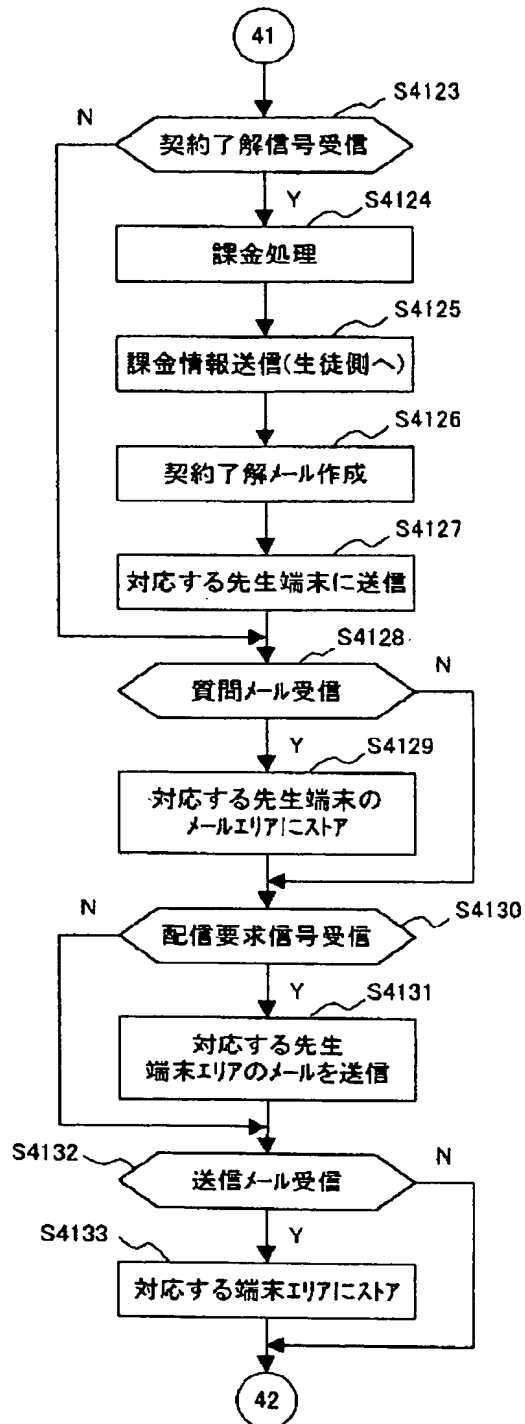
[Drawing 42]

アクセスしてきた端末システムに対応するために  
サーバーが実行する処理の流れを示すフローチャート(続き1)



[Drawing 43]

アクセスしてきた端末システムに対応するために  
サーバーが実行する処理の流れを示すフローチャート(続き2)



[Translation done.]

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